CADE

Cost Assessment Data Enterprise

Defense Cost and Resource Center (DCARC)

Cost and Software Data Reports (CSDRs)

Industry and Government Training

Washington, DC

Last Updated: December 2, 2015

Track: Training - Course Outline

AGENDA

- CSDR 101
- CSDR Planning
- "CADEPardy"
- CSDR Validation Process & Demo
- CADE Demo
- Round Table Discussion
- Summary, Questions, and Wrap up

By the end of the training, you will understand:

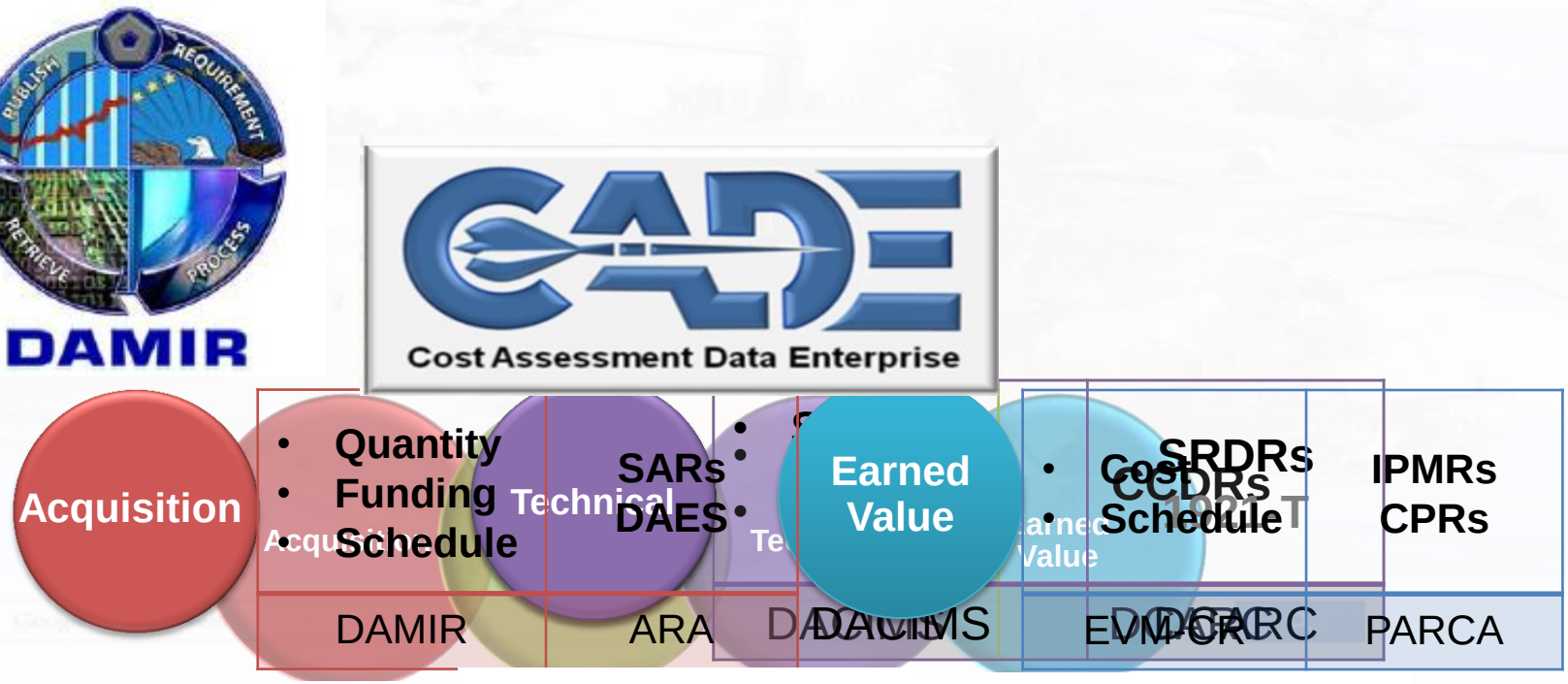
- How CADE improves productivity
- CADE tools & processes, and how you fit into the process
- The importance of CSDRs
- The CSDR Planning and CSDR validation Process and Procedures
- How to avoid common planning and Reporting pitfalls

- ❑ Be able to explain the utility of CSDRs
- ❑ Improve data quality through CSDR planning
- ❑ Successfully submit a report to the DCARC

Cost Assessment Data Enterprise

CSDR 101

CADE Authoritative Data Sources



CADE Total Access Dashboard

CADE
About CADE, Request Access

Dashboard default view

Site-Level Navigation

Contextual Help and Feedback

OSD CAPE

Knowledge Portal | DCA… | CAPE

…ccess

FOR OFFICIAL USE ONLY / PROPRIETARY DATA

CADE PORTAL | CONTENT MANAGEMENT | SEARCH PROGRAMS | DASHBOARD | RETRIEVE FILES | TOOLS | REPORTS | CONTACT US | Test User | * Please close this window to log out *

Program: USS Voyager ★ My Favorite Programs

Program-Level | EVM | CSDR | O & S

Program-specific data

Immediate access to Favorite Programs

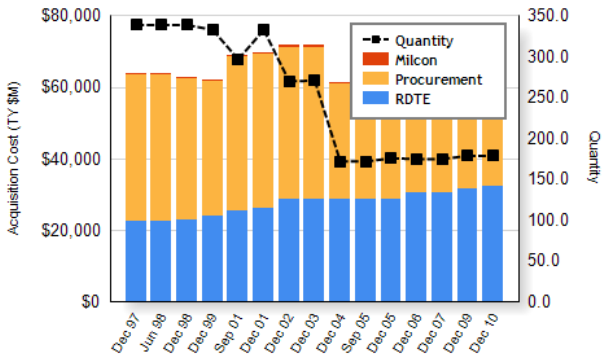
USS Voyager

…d Service	Program Group	ACAT Category	Latest SAR	Acq Cost ($M)	Quant…
AIR FORCE	MDAP	ID	Dec 2010	161,969.2	179

Acquisition Cost and Quantity Estimate

Across SAR Submissions

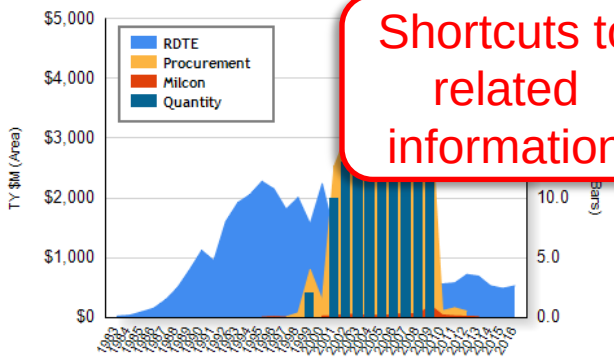
(Datasource - DAMIR)



Time-Phased Acquisition Costs and Quantity

Dec-2010 SAR

(Datasource - DAMIR)



Shortcuts to related information

Program Contracts and Data Availability

Contract Number	Phase	Prime/Sub	Prime Contractor	Service	Contract Type	EVM Efforts	CSDR Plans *	
007-4150-7996-006-024	SDD	Prime	The Academy	AIR FORCE	FFP	2	1	
NCCC06-01-D-74656	LRIP/PROD	Prime	The Academy	AIR FORCE	CPIF/FFP/FPAF	1	1	
DAAA06-10-C-0095	LRIP/PROD	Prime	The Academy	AIR FORCE	CPIF/FFP/FPAF	2	1	

Collapse Widgets

USS Voyager

Program Funding as of Dec 2010 SAR

RDTE(TY$):	32,423.4M
Procurement(TY$):	34,237.0M
Milcon(TY$):	676.6M
Units:	179

View Funding Detail

Milestones

Program Milestones from DAMIR

Milestone	APB Obj.	APB Thres	Current
IOC	Jan 2014	Jul 2014	Apr 2014
IOT&E USSV 2	Dec 2013	Jun 2014	Aug 2015

View and Plot Milestones

Key Events

Key Events list maintained by community

Aug 2010 - Warp Drive Sub
Jan 2007 - Intrepid Award
Jun 2008 - PDR Actual
Jul 2009 - CDR

View and Plot Key Events

Community Knowledge

Share information related to this program

VD Test User shared a note. 3/23/2015
VD Test User shared a file. 3/23/2015
VD Test User shared a link. 3/23/2015
VD Test User shared a file. 3/23/2015

View Community Knowledge

CCRL Search

Open CCRL website in a new tab

The Collaborative Cost Research Library is an online document library that contains over 16,000 cost research files contributed by the services and support contractors. Search among these documents here.

Search CCRL Documents

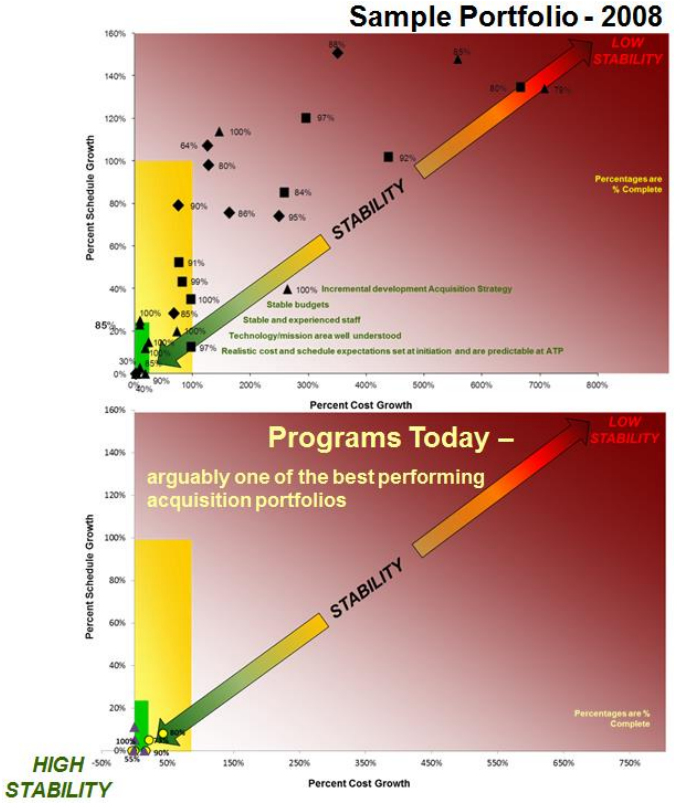
Cost Assessment Data Enterprise

WHY WE NEED THIS DATA - Improved Acquisition Outcomes

BETTER DATA:

- **Quality:** Authoritative Quality Data means more time for analysis; less time collecting data.
- **Completeness:** Integrated data enables comprehensive assessments; less burden on industry
- **Availability:** Near real-time access to data
- **Transparency:** Authoritative Source data also increases confidence in results

OSD CAPE

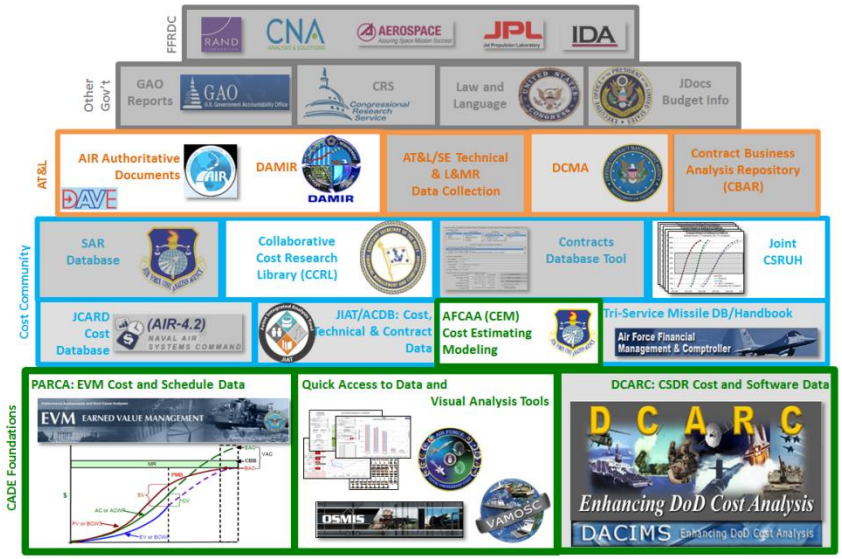


STRONGER DECISION SUPPORT:

- **Standardized:** Standardized data collection supports standardized analysis
- **Cost Realism:** Fundamental to preparing credible cost estimates
- **Institutional Knowledge:** Effective tool to retain historical knowledge and turn data into information
- **Budget Preparation:** Used to assess the adequacy of budgets and program plans

THE CADE EFFECT ON THE COST COMMUNITY
Why We Need This Data:

CADE Integration Across the Community



COST COMMUNITY COORDINATION:

- Revolutionizing Cost Data collection
- Cost Community has Requirements, Leadership, & Operational Responsibility
- Common Terminology has created the ability to estimate across Departments

IMPROVED ACQUISITION OUTCOMES:

- **Authoritative Quality Data:** Cooperative Planning and Compliance lead to better data and improved program management
- **Cost Realism:** Provide real-time cost data for analysis & contract negotiations
- **Full view of Weapons Systems Program Performance:** Visual analytics, trend analysis & technical data to improve cost realism and make informed decisions

EFFICIENT AND EFFECTIVE ANALYSIS:

(at all levels: OSD, Services, PMOs)

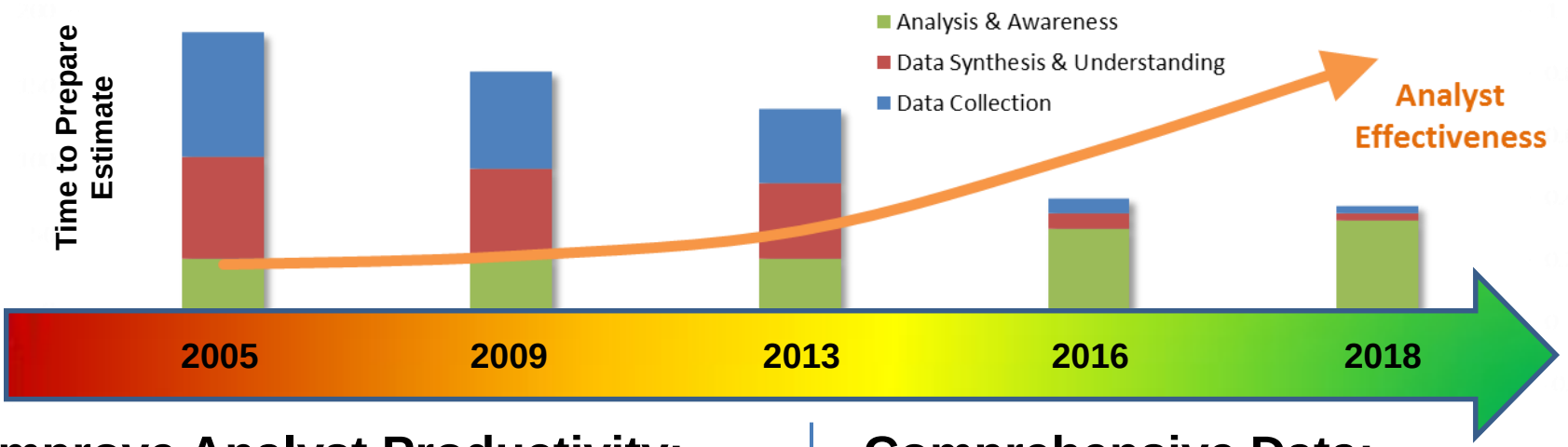
- Improved Analytical Rigor & Productivity
- More time for analysis; less time collecting data
- More comprehensive assessments & Reduced burden on Industry

CADE
About CADE, Request Access

CSDR
DCARC, DACIMS Policy, Info

EVM
EVM-CR, Policy, Info

Why Should You Care – More Efficient and Effective Analysis



Improve Analyst Productivity:

- Less burden on analyst to retrieve and process data
- Become familiar with programs more quickly
- Complete analysis facilitates telling the program's "story"

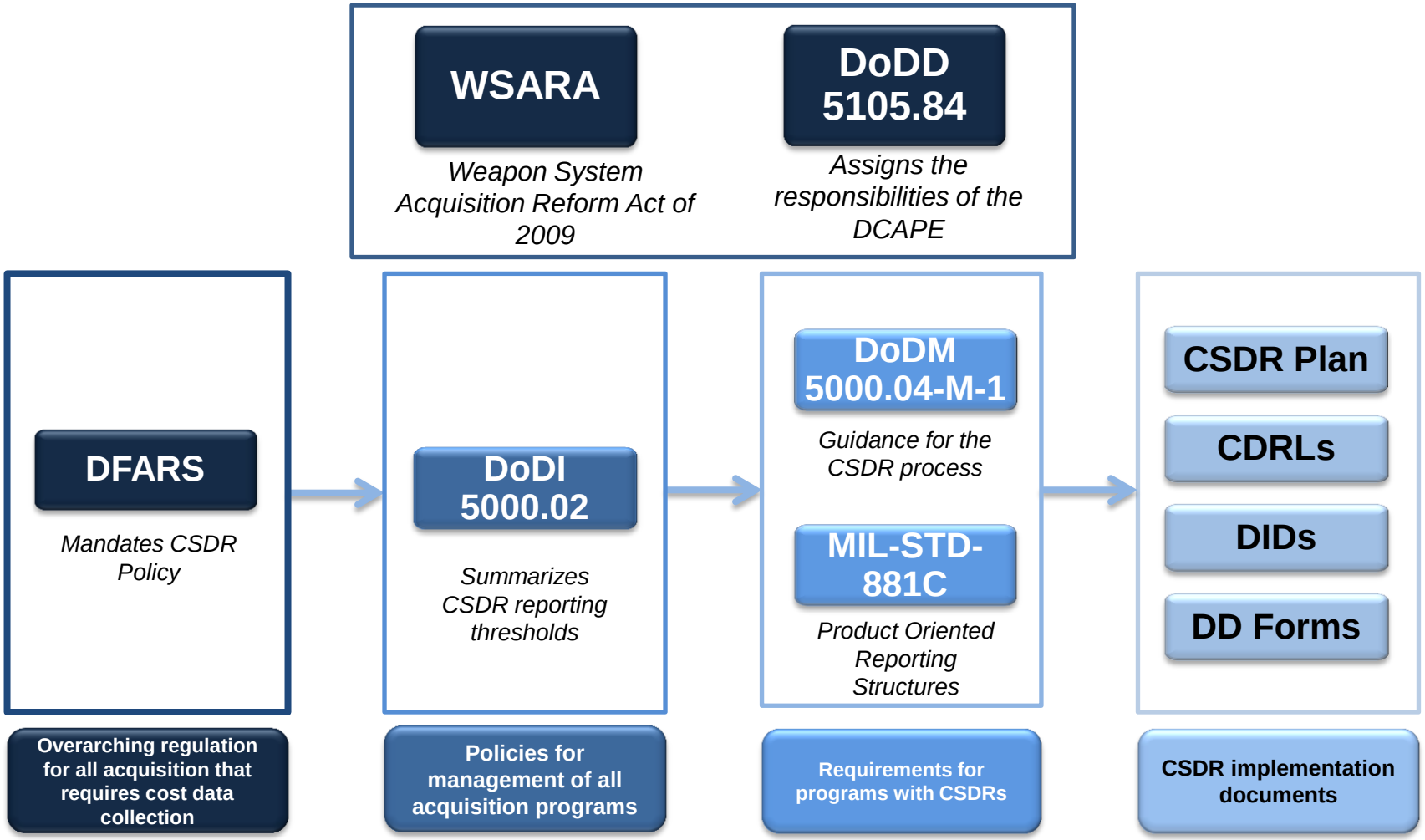
Comprehensive Data:

- Improved Planning and Compliance lead to better data
- "One-stop shop" for Cost, EVM, Programmatic, and Technical
- Centralized virtual library includes CARDs and ICEs

Cost analysts will have data and institutional knowledge at their fingertips. It will be the exception – not the rule – that we have to go back to Industry to do our estimates

Cost Assessment Data Enterprise

Why Should You Comply?



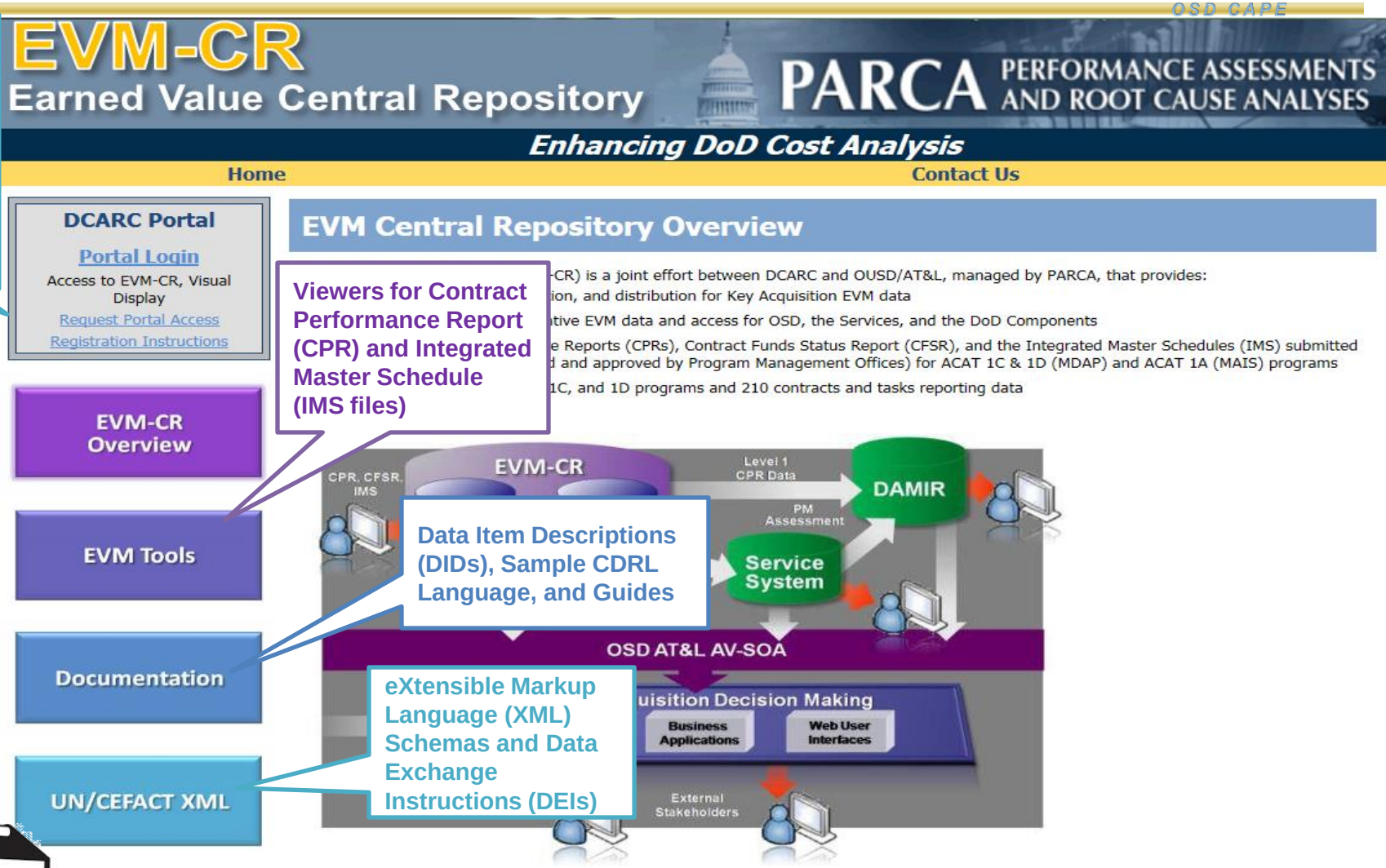
Systematic cost data collection is necessary for program stability

CADE Authoritative Data Sources

EVM
EVM-CR, Policy, Info

EVM-CR – The EVM Engine

Access point to the EVM-CR (Either a CAC or ECA Certificate is required)

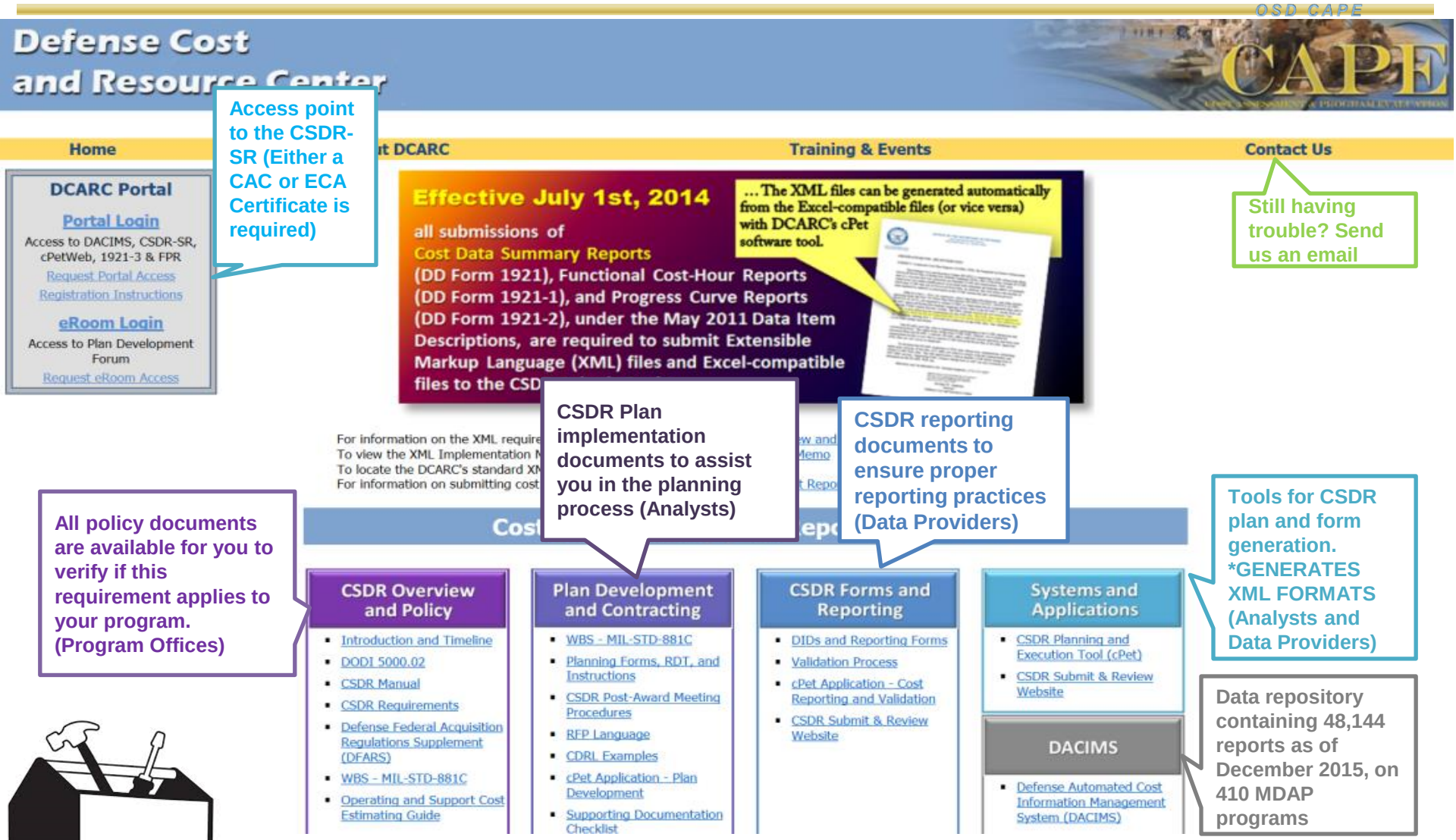


Tools for EVM success are available at http://cade.osd.mil/EVM/

CADE Authoritative Data Sources

CSDR
DCARC, DACIMS Policy, Info

DCARC – The CSDR "Engine"



Access point to the CSDR-SR (Either a CAC or ECA Certificate is required)

Still having trouble? Send us an email

CSDR Plan implementation documents to assist you in the planning process (Analysts)

CSDR reporting documents to ensure proper reporting practices (Data Providers)

All policy documents are available for you to verify if this requirement applies to your program. (Program Offices)

Tools for CSDR plan and form generation. *GENERATES XML FORMATS (Analysts and Data Providers)

Data repository containing 48,144 reports as of December 2015, on 410 MDAP programs

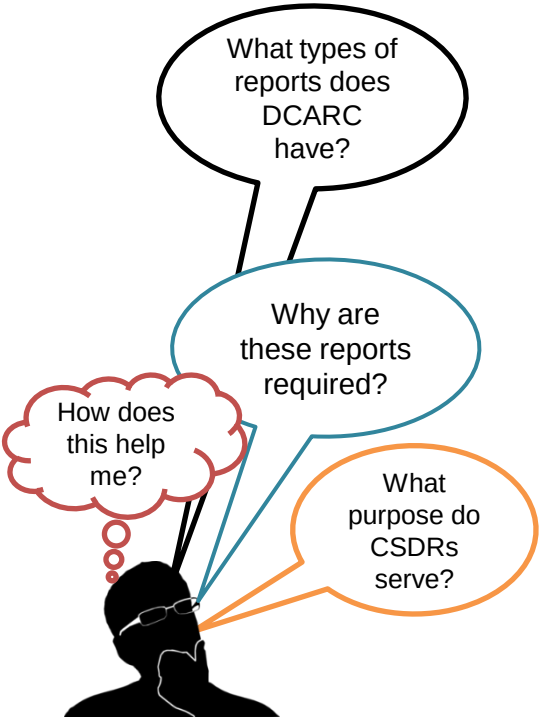
Tools for CSDR success are available at http://cade.osd.mil/CSDR/

What are Cost and Software Data Reports? (CSDRs)

Contractor Cost Data Report

Software Resources Data Report

Cost and Software Data Report



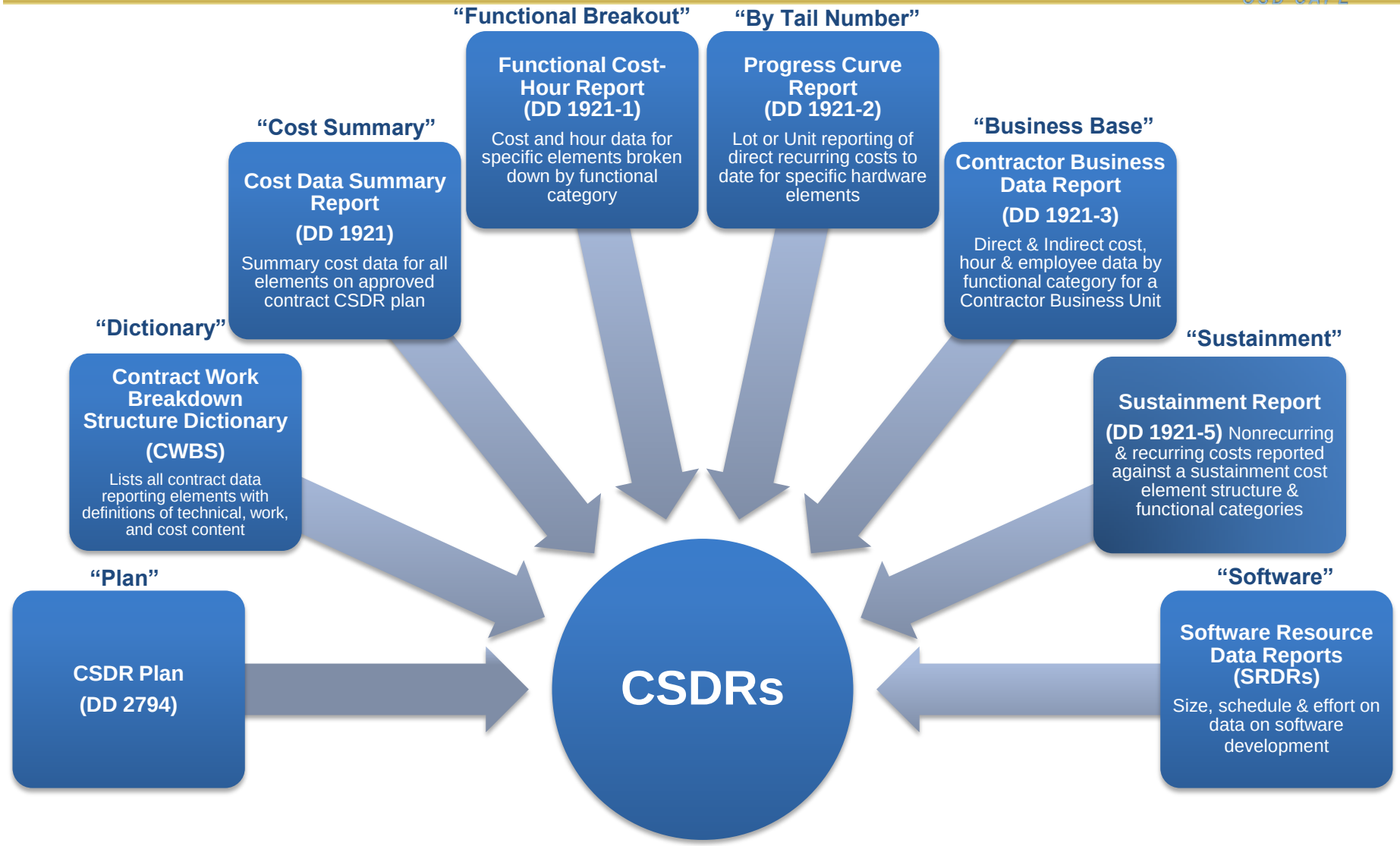
- **Organized via a standard, product-oriented WBS**
- **Reporting required on MDAP/MAIS contracts and subcontracts**
  - Over $50M
  - Optional between $20M and $50M
  - ACAT II & III Programs (demand from services)
- **Helps us project future program & contract costs**
- **Available to all DoD Government analysts electronically**

Cost Assessment Data Enterprise

Types of CSDRs

CCDR + SRDR = CSDR

OSD CAPE



CSDR Data We Collect Today

CSDR Plan
DD Form 2794

CSDR Plan

- Defines WBS used for CSDR submissions
- Identifies required reports
- Lists Submission Events and expected due dates
- Contains Standard Plan Language and Special Contractor Instructions

COST AND SOFTWARE DATA REPORTING PLAN

Form Approved OMB No. 0704-0188

The public reporting burden for this collection of information is estimated to average 8 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to Department of Defense, Executive Services Directorate (0704-0188). Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.
PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THE ABOVE ORGANIZATION.

Metadata

1. MAJOR PROGRAM a. NAME:
b. PHASE/MILESTONE: ☐ Pre-A ☐ A ☐ B ☐ C-LRIP ☐ C-FRP ☐ O&S
c. PRIME MISSION PRODUCT
2. WBS SYSTEM TYPE
3. SUBMISSION TYPE: ☐ INITIAL ☐ CHANGE
4. CURRENT SUBMISSION DATE (YYYYMMDD)
5. LAST APPROVED PLAN DATE (YYYYMMDD)
6a. POINT OF CONTACT (POC) NAME AND ADDRESS (Include ZIP Code)
6b. TELEPHONE NUMBER (Include Area Code)
6c. FAX NUMBER (Include Area Code)
6d. E-MAIL ADDRESS
7. PLAN TYPE: ☐ PROGRAM ☐ CONTRACT (PRIME) ☐ CONTRACT (SUB)
8. PREPARING ORGANIZATION
9a. CONTRACTOR NAME/ADDRESS
i. PERFORMING ORGANIZATION ii. DIVISION
9b. CONTRACT NUMBER
9c. APPROPRIATION: ☐ RDT&E ☐ PROCUREMENT ☐ O&M
10. APPROVED PLAN NUMBER

Element Code and Reporting Elements

11. WBS ELEMENT CODE
a. PROGRAM/ CONTRACT/ SUBCONTRACT
b. CONTRACT/ SUBCONTRACT
12. WBS REPORTING ELEMENTS

Required Reports

13. REPORTS REQUIRED (X if applicable) DD 1921-3 (CBDR): ☐
a. CWBS DICTIONARY
b. DD 1921 (CDSR)
c. DD 1921-1 (FCHR)
d. DD 1921-2 (PCR)
e. DD 1921-4 (CSR)
f. SRDR FORMATS

Submission Events

14. CSDR SUBMISSION DATES
a. SUBMISSION
b. FORM(S)
c. EVENT
d. AS OF DATE (YYYYMMDD)
e. DUE DATE (YYYYMMDD)

Contract Plan Language and Special Instructions

15. REMARKS

DD FORM 2794, MAY 2011
DD FORM 2794 (PAGE 2), MAY 2011
PREVIOUS EDITION IS OBSOLETE

Cost Assessment Data Enterprise

CWBS Dictionary

CCDR + SRDR = CSDR

OSD CAPE

CWBS Dictionary

- Provides definitions for all WBS elements
- Cost, technical and work content included in definitions
- Physical description for all hardware elements

Metadata

Contract Work Breakdown Structure Dictionary	Program: P-49 Phoenix Fighter	RFP No: XXXXX	Contract Plan No.: A-10-X-C1
		Contract No: DAAE07-XX-E-0001	Date: 9/26/2012
		Point of Contact: Erin Bell, (310) 555-9461, ebell@company.com	

Element Codes

Element Levels

Element Names

Technical, Work, and Cost Content Definitions

CWBS CODE	CWBS ELEMENT LEVEL 1	2	3	4	5	CWBS ELEMENT NAME	CWBS DEFINITION
1.0	X					P-49 Phoenix Fighter	This WBS element includes the cost of the P-49 Phoenix Fighter in addition to the cost of the common WBS elements. The P-49 Phoenix Fighter is an Army aircraft developed to conduct anti-submarine warfare. This WBS element reports the total production cost, includes all design, development, production, and procurement efforts associated with the total complement of equipment, software, services, facilities, and integrated logistics support that are necessary to deliver and maintain the aircraft, through the cost for the common WBS elements. WBS element 1.1 Air Vehicle captures the cost of the product, while WBS elements 1.3 through 1.1.1 capture the cost of the "common elements".
1.1		X				Air Vehicle	The air vehicle element includes design, production, material and equipment procurements including associated vendor design/development efforts to provide for a functionally integrated air vehicle including installation of engines and avionics and all contractor
1.1.1			X			Airframe	vendor design to provide the fuselage, canopy assembly, and access doors. The makeup of the air frame is comprised of steel and composite metals including aluminum alloys. This element includes the basic structure including the wings, fuselage, empennage, and nacelle.
1.1.2			X			Propulsion	The propulsion system incorporates the X-5231 engine. The engine is started by firing the initiator by command by the Missile Control Unit. The initiator is connected to the engine start cartridge and the igniter cartridge. The start cartridge produces high pressure gasses which impinge on a turbine, thereby spinning the engine up to starting speed.
1.1.3			X			Vehicle Subsystems	The vehicle subsystems includes design, production, material and equipment procurements including associated vendor design/development efforts to provide for the Auxiliary Power Unit, Airframe Mounted Accessory Drive, Air Turbine Starter, oil cooling lines. The equipments perform engine starting on the ground, emergency starting during flight, ground checkout operations of aircraft accessories, and power takeoff for hydraulic pumps and electrical generator system and fuel motive flow pumps.
1.1.4			X			Avionics	The avionics includes the X-1PY radar, radar altimeter, direction finding set, doppler compass, computer. The contractor is procuring this item from a supplier, and is also completing tests upon delivery.
1.1.5			X			Armament/Weapons Delivery	This WBS element is not applicable to this contract.
1.1.6			X			Auxiliary Equipment	This WBS element is not applicable to this contract.
1.1.7			X			Furnishings and Equipment	This WBS element is not applicable to this contract.
1.1.8			X			Air Vehicle Software	This WBS element is not applicable to this contract.
1.1.9			X			Air Vehicle Integration, Assembly, Test, and Checkout	The air vehicle integration, assembly, test and checkout is conducted by the contractor at the contractor's site. It includes load analysis, stress analysis, and maintenance effort. Also included is the joining and instalaction of all third level WBS elements into the air vehicle, as well as final acceptance testing. All work is being conducted by the contractor at the contractor's facilities.
1.2		X				Systems Engineering	This WBS element is not applicable to this contract.
1.3		X				Program Management	Program management includes the contractor's efforts to perform tasks required for planning and control of program schedules, cost and technicla performance including WBS maintenance, work authorizations, budgeting and data reporting. Also included is management and maintenance of the requirements database.
1.4		X				System Test and Evaluation	This WBS element is not applicable to this contract.
1.5		X				Training	This WBS element is not applicable to this contract.
1.6		X				Data	This WBS element is not applicable to this contract.
1.7		X				Peculiar Support Equipment	This WBS element is not applicable to this contract.
1.8		X				Common Support Equipment	This WBS element is not applicable to this contract.
1.9		X				Operational/Site Activation	This WBS element is not applicable to this contract.
1.10		X				Industrial Facilities	This WBS element is not applicable to this contract.
1.11		X				Initial Spares & Repair Parts	This WBS element is not applicable to this contract.

Cost Data Summary Report
DD Form 1921

CCDR + SRDR = CSDR

OSD CAPE

DD 1921

- Displays ALL WBS elements
- Recurring & Nonrecurring costs
- Actual costs to date, estimates at completion
- Number of Units
- Contract Totals
- G&A, FCCM, UB, MR, and Fee

SECURITY CLASSIFICATION: Unclassified

COST DATA SUMMARY REPORT

Form Approved OMB No. 0704-0188

The public reporting burden for this collection of information is estimated to average 8 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to Department of Defense, Washington Headquarters Services, Executive Services Directorate (0704-0188). Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.
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1. MAJOR PROGRAM a. NAME: b. PHASE/MILESTONE ☐ Pre-A ☐ A ☐ B ☐ C-LRIP ☐ C-FRP ☐ O&S	**2. PRIME MISSION PRODUCT**	**3. REPORTING ORGANIZATION TYPE** ☐ PRIME / ASSOCIATE CONTRACTOR ☐ DIRECT-REPORTING SUBCONTRACTO R ☐ GOVERNMENT	**4. NAME/ADDRESS** (Include ZIP Code) a. PERFORMING ORGANIZATION b. DIVISION		**5. APPROVED PLAN NUMBER**
6. CUSTOMER (Direct-reporting subcontractor use only)	**7. CONTRACT TYPE**	**8. CONTRACT PRICE**	**9. CONTRACT CEILING**	**10. TYPE ACTION** a. CONTRACT NO.: b. LATEST MODIFICATION: c. SOLICITATION NO.: d. NAME: e. TASK ORDER/DELIVERY ORDER/LOT NO.:	
11. PERIOD OF PERFORMANCE a. START DATE *(YYYYMMDD)*: b. END DATE *(YYYYMMDD)*:			**12. APPROPRIATION** ☐ RDT&E ☐ PROCUREMENT ☐ O&M	**13. REPORT CYCLE** ☐ INITIAL ☐ INTERIM ☐ FINAL	**14. SUBMISSION NUMBER** / **15. RESUBMISSION NUMBER** / **16. REPORT AS OF** *(YYYYMMDD)*
17. NAME (Last, First, Middle Initial)			**18. DEPARTMENT**	**19. TELEPHONE NUMBER** (Include Area Co	**20. EMAIL ADDRESS** / **21. DATE PREPARED** *(YYYYMMDD)*

Metadata

WBS ELEMENT CODE A	WBS REPORTING ELEMENTS B	NUMBER OF UNITS TO DATE C	COSTS INCURRED TO DATE (thousands of U.S. Dollars) NONRECURRING D	RECURRING E	TOTAL F	NUMBER OF UNITS AT COMPLETION G	COSTS INCURRED AT COMPLETION (thousands of U.S. Dollars) NONRECURRING H	RECURRING I	TOTAL J
	Element Codes and Reporting Elements	To Date Units	To Date Costs (Nonrecurring, Recurring, Total)			At Completion Units	At Completion Costs (Nonrecurring, Recurring, Total)		

22. REMARKS

Remarks

DD FORM 1921, MAY 2011 — PREVIOUS EDITION IS OBSOLETE. — SECURITY CLASSIFICATION: Unclassified

Functional Cost-Hour Report
DD Form 1921-1

CCDR + SRDR = CSDR

OSD CAPE

DD 1921-1

- Insight into individual WBS elements
- Recurring & Nonrecurring costs
- Actual costs to date, estimates at completion
- Detailed breakout of all resource data
- Reporting by functional categories

SECURITY CLASSIFICATION: Unclassified

FUNCTIONAL COST-HOUR REPORT

Form Approved OMB No. 0704-0188

The public reporting burden for this collection of information is estimated to average 16 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to Department of Defense, Washington Headquarters Services, Executive Services Directorate (0704-0188). Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. **PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THE ABOVE ORGANIZATION.**

Metadata

1. MAJOR PROGRA a. NAME: / b. PHASE/MILESTONE: Pre-A, A, B, C-LRIP, C-FRP, O&S
2. PRIME MISSION PRODUCT
3. REPORTING ORGANIZATION TYPE: PRIME / ASSOCIATE CONTRACTOR, DIRECT-REPORTING SUBCONTRACTOR, GOVERNMENT
4. NAME/ADDRESS (Include Zip Code): a. PERFORMING ORGANIZATION; b. DIVISION
5. APPROVED PLAN NUMBER
6. CUSTOMER (Direct-Reporting Subcontractor Use Only)
7. TYPE ACTION: a. CONTRACT NO.; b. LATEST MODIFICATION; c. SOLICITATION NO.; d. NAME; e. TASK ORDER/DELIVERY ORDER/LOT NO.:
8. PERIOD OF PERFORMANCE: a. START DATE (YYYYMMDD); b. END DATE (YYYYMMDD)
9. REPORT CYCLE: INITIAL, INTERIM, FINAL
10. SUBMISSION NUMBER
11. RESUBMISSION NUMBER
12. REPORT AS OF (YYYYMMDD)
13. NAME (Last, First, Middle Initial)
14. DEPARTMENT
15. TELEPHONE NO. (Include Area Code)
16. EMAIL ADDRESS
17. DATE PREPARED (YYYYMMDD)
18. WBS ELEMENT CODE
19. WBS REPORTING ELEMENT

WBS Element Code and Name

20. NUMBER OF UNITS: a. TO DATE; b. AT COMPLETION

Number of Units to Date and at Completion

21. APPROPRIATION: RDT&E, PROCUREMENT, O&M

Functional Categories

FUNCTIONAL DATA ELEMENTS	COSTS AND HOURS INCURRED TO DATE (thousands of U.S. Dollars or thousands of hours) A. NONRECURRING	B. RECURRING	C. TOTAL	COSTS AND HOURS INCURRED AT COMPLETION (thousands of U.S. Dollars or thousands of hours) D. NONRECURRING	E. RECURRING	F.TOTAL
ENGINEERING						
(1) DIRECT ENGINEERING LABOR HOURS						
(2) DIRECT ENGINEERING LABOR DOLLARS						
(3) ENGINEERING OVERHEAD DOLLARS						
(4) TOTAL ENGINEERING DOLLARS						
MANUFACTURING OPERATIONS						
(5) DIRECT TOOLING LABOR HOURS						
(6) DIRECT TOOLING LABOR DOLLARS						
(7) DIRECT TOOLING & EQUIPMENT DOLLARS						
(8) DIRECT QUALITY CONTROL LABOR HOURS						
(9) DIRECT QUALITY CONTROL LABOR DOLLARS						
(10) DIRECT MANUFACTURING LABOR HOURS						
(11) DIRECT MANUFACTURING LABOR DOLLARS						
(12) MANUFACTURING OPERATIONS OVERHEAD DOLLARS *(Including Tooling and Quality Control)*						
(13) TOTAL MANUFACTURING OPERATIONS DOLLARS *(Sum of rows 6, 7, 9, 11, and 12)*						
MATERIALS						
(14) RAW MATERIAL DOLLARS						
(15) PURCHASED PARTS DOLLARS						
(16) PURCHASED EQUIPMENT DOLLARS						
(17) MATERIAL HANDLING OVERHEAD DOLLARS						
(18) TOTAL DIRECT-REPORTING SUBCONTRACTOR DOLLARS						
(19) TOTAL MATERIAL DOLLARS						
OTHER COSTS						
(20) OTHER COSTS NOT SHOWN ELSEWHERE *(Specify in Remarks)*						
SUMMARY						
(21) TOTAL COST (Direct and Overhead)						

Costs and Hours Incurred to Date

Costs and Hours Incurred at Completion

22. REMARKS

Remarks

DD FORM 1921-1, MAY 2011

SECURITY CLASSIFICATION: Unclassified

Progress Curve Report
DD Form 1921-2

CCDR + SRDR = CSDR

OSD CAPE

DD 1921-2

- For specific hardware WBS elements
- Unit or Lot reporting
- Technical Characteristics
- To Date, Direct Recurring costs & hours
- Detailed breakout of resource data
- Reporting by functional category

SECURITY CLASSIFICATION: Unclassified

PROGRESS CURVE REPORT

Form Approved OMB No. 0704-0188

The public reporting burden for this collection of information is estimated to average 16 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to Department of Defense, Washington Headquarters Services, Executive Services Directorate (0704-0188). Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. **PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THE ABOVE ORGANIZATION.**

1. MAJOR PROGRAM a. NAME: / b. PHASE/MILESTONE: ☐ Pre-A ☐ A ☐ B ☐ C-LRIP ☐ C-FRP ☐ O&S
2. PRIME MISSION PRODUCT
3. REPORTING ORGANIZATION TYPE: ☐ PRIME / ASSOCIATE CONTRACTOR ☐ DIRECT-REPORTING SUBCONTRACTOR ☐ GOVERNMENT
4. NAME/ADDRESS (Include ZIP Code) a. PERFORMING ORGANIZATION b. DIVISION
5. APPROVED PLAN NUMBER
6. CUSTOMER (Direct-Reporting Subcontractor Use Only)
7. TYPE ACTION a. CONTRACT NO.: b. LATEST MODIFICATION c. SOLICITATION NO.: d. NAME: e. TASK ORDER/DELIVERY ORDER/LOT NO.:
8. PERIOD OF PERFORMANCE a. START DATE (YYYYMMDD): b. END DATE (YYYYMMDD):
9. REPORT CYCLE ☐ INITIAL ☐ INTERIM ☐ FINAL
10. SUBMISSION NUMBER
11. RESUBMISSION NUMBER
12. REPORT AS OF (YYYYMMDD)
13. NAME (Last, First, Middle Initial)
14. DEPARTMENT
15. TELEPHONE NO. (Include Area Code)
16. E-MAIL ADDRESS
17. DATE PREPARED (YYYYMMDD)

Metadata

18. WBS ELEMENT CODE
19. WBS REPORTING ELEMENT

WBS Element Code and Name

20. UNITS/LOTS COMPLETED ☐ UNIT TOTAL ☐ LOT TOTAL

Lot or Unit Total

21. APPROPRIATION ☐ RDT&E ☐ PROCUREMENT ☐ O&M

Functional Categories

DATA ELEMENTS	A. COMPLETED UNITS/LOTS (thousands of U.S. Dollars or thousands of hours) A1	A2	A3	A4	B. WORK IN PROCESS (WIP) (thousands of U.S. Dollars or thousands of hours)	C. TOTAL DIRECT COSTS AND HOURS INCURRED TO DATE (thousands of U.S. Dollars or thousands of hours)
(1) MODEL AND SERIES						
(2) FIRST UNIT						
(3) LAST UNIT						
(4) CONCURRENT UNITS/LOTS						
CHARACTERISTICS						
(5a) Weight						
(5b) Speed						
(5c) Power						
ENGINEERING (RECURRING ONLY)						
(6) DIRECT ENGINEERING LABOR HOURS						
(7) DIRECT ENGINEERING LABOR DOLLARS						
MANUFACTURING OPERATIONS (RECURRING ONLY)						
(8) DIRECT TOOLING LABOR HOURS						
(9) DIRECT TOOLING LABOR DOLLARS						
(10) DIRECT TOOLING & EQUIPMENT DOLLARS						
(11) DIRECT QUALITY CONTROL LABOR HOURS						
(12) DIRECT QUALITY CONTROL LABOR DOLLARS						
(13) DIRECT MANUFACTURING LABOR HOURS						
(14) DIRECT MANUFACTURING LABOR DOLLARS						
(15) TOTAL DIRECT MANUFACTURING OPERATIONS DOLLARS *(Sum of rows 9,10,12, a*						
MATERIALS (RECURRING ONLY)						
(16) RAW MATERIALS DOLLARS						
(17) PURCHASED PARTS DOLLARS						
(18) PURCHASED EQUIPMENT DOLLARS						
(19) TOTAL DIRECT-REPORTING SUBCONTRACTOR DOLLARS						
(20) TOTAL DIRECT MATERIAL DOLLARS						
OTHER COSTS (RECURRING ONLY)						
(21) OTHER DIRECT COSTS NOT SHOWN ELSEWHERE *(Specify in Remarks)*						
SUMMARY (RECURRING ONLY)						
(22) TOTAL DIRECT COST						

Completed Units/Lots

Work in Process

Total Direct Costs and Hours Incurred to Date

22. REMARKS

Remarks

DD FORM 1921-2, 20110518 PREVIOUS EDITION IS OBSOLETE. SECURITY CLASSIFICATION Unclassified

Contractor Business Data Report
DD Form 1921-3

CCDR + SRDR = CSDR

OSD CAPE

DD 1921-3

- Report per contractor site
- Covers all DoD business
- Direct Costs by Program
- Indirect Cost Categories
- Direct Labor Rates by Function
- Organization & Accounting Changes

SECURITY CLASSIFICATION

CONTRACTOR BUSINESS DATA REPORT

Form Approved OMB No. 0704-0188

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1. CONTRACTOR NAME/ADDRESS (Include Zip Code)	2. FPR UNIT	3. IMPLEMENTING CONTRACT NUM	4. DATA PERIOD (X	5. FISCAL YEAR (YY	6. DATES IN FISCAL YEAR (YYYYMM
Metadata			Prior Year Current Yea Future Year		Start Date: End Date:
7. PREPARER'S NAME (Last, First, Middle Initial)	**8. DEPARTMENT**	**9. TELEPHONE NO.** (Include Area Cod	**10. EMAIL ADDRESS**		**11. DATE PREPARED** (YYYYMMDD)

Overhead Accumulation, Distribution, and Application

SECTION A

DIRECT COST BY PROGRAM — **DIRECT: COST / HOURS / MANPOWER** (Report dollars and hours in thousands)

Program Name a	A/F	Contract Number b	Equivalent Units c	Buyer d	Engineering Workers e	Engineering Dollars f	Engineering Hours g	Manufacturing Operations Workers h	Manufacturing Operations Dollars i	Manufacturing Operations Hours j	Materials Dollars k	Other Workers l	Other Dollars m	Other Hours n
1.														
2.														
3.														
4.														
5.														
6.														
7.														
8.														
9.														
10.														
11. Other DoD Effort														
12. Other Government Effort														
13. Commercial Effort														
14. Total Direct Cost and Hours Base						$0.0	0.0		$0.0	0.0	$0.0		$0.0	0.0
a. Total Direct Workers					0			0				0		

Direct Cost by Program

SECTION B

INDIRECT COST CATEGORY — **INDIRECT: COST / HOURS / MANPOWER** (Report dollars and hours in thousands)

Engineering Workers o	Engineering Dollars p	Engineering Hours q	Manufacturing Operations Workers r	Manufacturing Operations Dollars s	Manufacturing Operations Hours t	Materials Dollars u	Other Workers v	Other Dollars w	Other Hours x	G&A Dollars y	G&A Hours z
15. Indirect Labor											
16. Employee Benefits											
17. Payroll Taxes											
18. Employment											
19. Communication/Travel											
20. Production Related											
21. Facilities-Building/Land											
22. Facilities-Furniture/Equipment											
23. Administration											
24. Future Business											
25. Other Miscellaneous											
26. Credits											
27. Total Indirect Cost and Hours											
28. Total G&A Cost and Hours											
29. Indirect/Direct Cost Rate											
30. G&A Rate/(Direct + Indirect)											

Indirect Cost Categories

DD FORM 1921-3, MAY 2011

CONTRACTOR BUSINESS DATA REPORT - PAGE 2

SECTION C

PRODUCTION CAPACITY — Current Year — Method of Calculating "FPR unit % of Full Production Capacity"

FPR Unit % of Full Production Capacity

Number of Shifts

Production Capacity

SECTION D

Current Year (Report hours in thousands)

DIRECT LABOR RATES (FUNCTIONAL CATEGORIES)	1st Quarter Workers a	1st Quarter Hours b	1st Quarter Basic Rate$ c	1st Quarter Effective Rate$ d	2nd Quarter Workers a	2nd Quarter Hours b	2nd Quarter Basic Rate$ c	2nd Quarter Effective Rate$ d	3rd Quarter Workers a	3rd Quarter Hours b	3rd Quarter Basic Rate$ c	3rd Quarter Effective Rate$ d	4th Quarter Workers a	4th Quarter Hours b	4th Quarter Basic Rate$ c	4th Quarter Effective Rate$ d	Prior Year Basic Rate$ c	Year: Basic Rate$ c	Year: Basic Rate$ c
1. Engineering - Direct Labor																			
2. Manufacturing Operations - Direct Labor																			
a. Tooling - Direct Labor																			
b. Quality Control - Direct Labor																			
c. Manufacturing - Direct Labor																			

Direct Labor Rates

SECTION E

	Prior Year	Current Year
Total FPR Unit Revenue (Sales) (thousands of dollars)		

Revenue

SECTION F

Organizational Changes (For Each Year Reported) — Accounting Changes (For Each Year Reported)

Organizational and Accounting Changes

REMARKS

Remarks

DD FORM 1921-3, MAY 2011 — SECURITY CLASSIFICATION — Page 2 of 2

Cost Assessment Data Enterprise

Contractor Sustainment Functional Cost-Hour Report
DD Form 1921-5

CCDR + SRDR = CSDR

OSD CAPE

DD 1921-5

- **Insight into individual WBS elements**
- **Recurring & Nonrecurring costs**
- **Actual costs to date, estimates at completion**
- **Detailed breakout of all resource data**
- **Reporting by sustainment functional categories**

CONTRACTOR SUSTAINMENT FUNCTIONAL COST-HOUR REPORT

Form Approved OMB No. 0704-0188

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Metadata

1. MAJOR PROGRAM a. NAME: b. PHASE/MILESTONE ☐ Pre-A ☐ A ☐ B ☐ C-LRIP ☐ C-FRP ☐ O&S	2. PRIME MISSION PRODUCT	3. REPORTING ORGANIZATION TYPE ☐ PRIME / ASSOCIATE CONTRACTOR ☐ DIRECT-REPORTING SUBCONTRACTOR ☐ GOVERNMENT	4. NAME/ADDRESS (Include Zip Code) a. PERFORMING ORGANIZATION b. DIVISION	5. APPROVED PLAN NUMBER
6. CUSTOMER (Direct-Reporting Subcontractor Use Only)		7. TYPE ACTION a. CONTRACT NO.: b. LATEST MODIFICATION: c. SOLICITATION NO.: d. NAME: e. TASK ORDER/DELIVERY ORDER/LOT NO.:		
8. PERIOD OF PERFORMANCE a. START DATE (YYYYMMDD): b. END DATE (YYYYMMDD):		9. REPORT CYCLE ☐ INITIAL ☐ INTERIM ☐ FINAL	10. SUBMISSION NUMBER / 11. RESUBMISSION NUMBER	12. REPORT AS OF (YYYYMMDD)
13. NAME (Last, First, Middle Initial)	14. DEPARTMENT	15. TELEPHONE NO. (Include Area Code)	16. EMAIL ADDRESS	17. DATE PREPARED (YYYYMMDD)
18. WBS ELEMENT CODE	19. WBS REPORTING ELEMENT	20. NUMBER OF UNITS a. TO DATE b. AT COMPLETION		21. APPROPRIATION ☐ RDT&E ☐ PROCUREMENT ☐ O&M

WBS Element Code and Name

Number of Units to Date and at Completion

Sustainment Functional Categories

SUSTAINMENT FUNCTIONAL DATA ELEMENTS	COSTS AND HOURS INCURRED TO DATE (thousands of U.S. Dollars or thousands of hours) A. NONRECURRING	B. RECURRING	C. TOTAL	COSTS AND HOURS INCURRED AT COMPLETION (thousands of U.S. Dollars or thousands of hours) D. NONRECURRING	E. RECURRING	F.TOTAL
ENGINEERING						
(1) DIRECT ENGINEERING LABOR HOURS						
(2) DIRECT ENGINEERING LABOR DOLLARS						
(3) ENGINEERING OVERHEAD DOLLARS						
(4) TOTAL ENGINEERING DOLLARS						
PROGRAM MANAGEMENT						
(5) DIRECT PROGRAM MANAGEMENT LABOR HOURS						
(6) DIRECT PROGRAM MANAGEMENT LABOR DOLLARS						
(7) PROGRAM MANAGEMENT OVERHEAD DOLLARS						
(8) TOTAL PROGRAM MANAGMENT DOLLARS						
MAINTENANCE OPERATIONS						
(9) TOUCH MAINTENANCE LABOR HOURS						
(10) TOUCH MAINTENANCE LABOR DOLLARS						
(11) TOUCH MAINTENANCE OVERHEAD DOLLARS						
(12) SUPPORT MAINTENANCE LABOR HOURS						
(13) SUPPORT MAINTENANCE LABOR DOLLARS						
(14) SUPPORT MAINTENANCE OVERHEAD DOLLARS						
(15) TOTAL MAINTENANCE OPERATIONS DOLLARS						
MATERIALS						
(16) RAW MATERIAL DOLLARS						
(17) PURCHASED PARTS DOLLARS						
(18) PURCHASED EQUIPMENT DOLLARS						
(19) MATERIAL HANDLING/OVERHEAD DOLLARS						
(20) TOTAL DIRECT-REPORTING SUBCONTRACTOR DOLLARS						
(21) TOTAL MATERIAL DOLLARS						
OTHER COSTS						
(22) OTHER COSTS NOT SHOWN ELSEWHERE *(Specify in Remarks)*						
SUMMARY						
(23) TOTAL COST *(Direct and Overhead)*						

Costs and Hours Incurred to Date

Costs and Hours Incurred at Completion

22. REMARKS

Remarks

DD FORM 1921-5, MAY 2015 — SECURITY CLASSIFICATION: Unclassified

Cost Assessment Data Enterprise

Initial and Final Software Resource Data Reports (SRDRs)

OSD CAPE

SRDR

- Software size, effort, and schedule
- Data further explained in data dictionary
- Initial Developer Report- Due at beginning of project increment (estimates)
- Final Developer Report- Due at completion of project increment (actuals)

Section 3.3 ACTUAL PRODUCT SIZE REPORTING

NUMBER OF SOFTWARE REQUIREMENTS	TOTAL / NEW	NUMBER OF EXTERNAL INTERFACE REQUIREMENTS	TOTAL / NEW	REQUIREMENTS VOLATILITY

Section 3.3.4 FINAL TOTAL DELIVERED CODE	COUNTING CONVENTION		PRIME CONTRACTOR ONLY	ALL OTHER SUBCONTRACTORS
Section 3.3.4.1 AMOUNT OF DELIVERED CODE DEVELOPED NEW		HUMAN GENERATED		
		AUTO GENERATED		
Section 3.3.4.1 AMOUNT OF DELIVERED CODE REUSED FROM EXTERNAL SOURCE (i.e., NOT INHERITED FROM PREVIOUS INCREMENT/BUILD OR PREDECESSOR)		WITH MODIFICATIONS		
		WITHOUT MODIFICATIONS		
Section 3.3.4.1 AMOUNT OF DELIVER… INC…		WITH MODIFICATIONS		

Software Size

Section…

COMMENTS

Section 3.4 ACTUAL RESOURCE AND SCHEDULE REPORTING

SOFTWARE ACTIVITY NAME	MAPS TO CSDR WBS NUMBER(S)	START MONTH	END MONTH	TOTAL HOURS PRIME CONTRACTOR ONLY	TOTAL HOURS ALL OTHER SUBCONTRACTORS
(Example: SOFTWARE REQUIREMENTS ANALYSIS)					
(Example: SOFTWARE ARCHITECTURE AND DETAILED DESIGN)					
(Example: SOFTWARE CODING AND UNIT TESTING)					
(Example: SOFTWARE INTEGRATION)					
(Example: SOFTWARE QUALIFICATION TESTING)					
(Example: SYSTEM/SOFTWARE INTEGRATION)					
(Example: SYSTEM/SOFTWARE QUALIFICATION TESTING)					
(Example: SOFTWARE QUALITY ASSURANCE)					
(Example: SOFTWARE CONFIGURATION MANAGEMENT)					
(Example: SOFTWARE PROGRAM MANAGEMENT)					
ALL OTHER DIRECT SOFTWARE ENGINEERING DEVELOPMENT EFFORT (Example: DATA, PROCESS IMPROVEMENT, INDEPENDENT VERIFICATION & VALIDATION, PROBLEM RESOLUTION)					
TOTAL SOFTWARE DEVELOPMENT EFFORT					

Effort and schedule

COMMENTS

Comments

Cost Assessment Data Enterprise

CSDR Planning

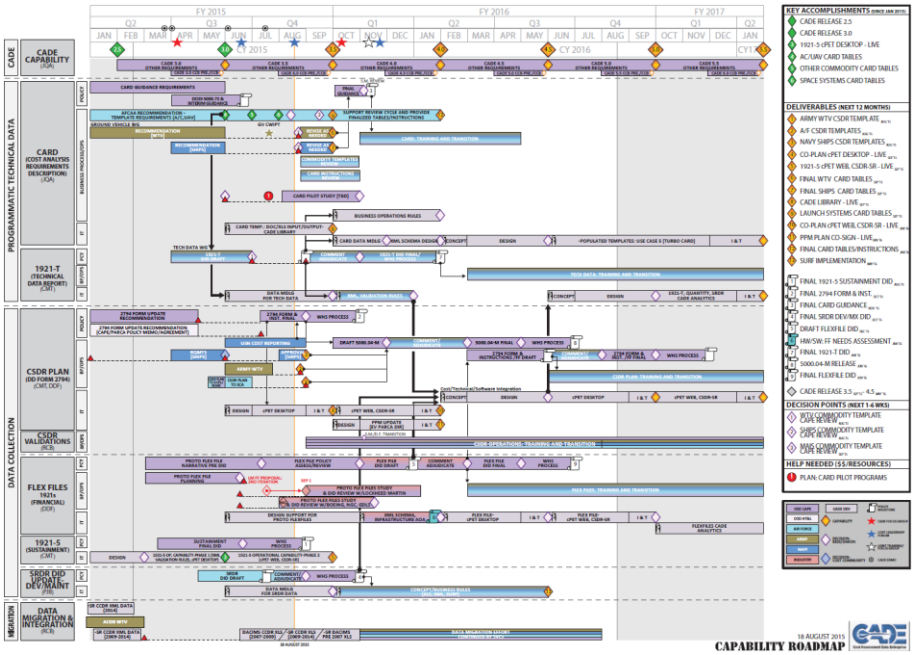
Cost Assessment Data Enterprise

New CSDR Planning Initiative Transition to Services:

OSD CAPE

COST COMMUNITY ASSISTANCE:

- **TRANSITION TEAM INVOLVEMENT:**
  - Put together a CSDR plan transition team for each of the services. This team will be responsible for:
    - Identifying all RFPs that meet CSDR reporting thresholds
    - Drafting all initial CSDR plans
    - Coordinating with the CWIPT to ensure all cost community needs are identified in the plan
    - Resolution of all cost data compliance issues
  - Designate one senior service team member to coordinate and manage transition efforts
    - This POC will have initial approval from the services perspective of all CSDR plans before they are forwarded to CAPE for DDCA signature
    - Assist with cost community tasks such as CSDR plans development, Plans validation, data migration and other cost collecting initiatives



OSD POCs:

PM CADE: Bess Dopkeen
DPM: Daron Fullwood Daron.D.Fullwood.civ@mail.mil
Contractor Suppt: James Parnham
james.m.parnham.ctr@mail.mil

Transition to the Services

Headquarters:

- Step in when needed to ensure programs are CSDR compliant
- Brief senior leadership on any CSDR issues
- Coordinate:
  - Service Component
  - Program Office
  - DCARC
- ASA(ALT) Army
- ASN(RDA) Navy
- SAF-AQ Air Force

Service Component:

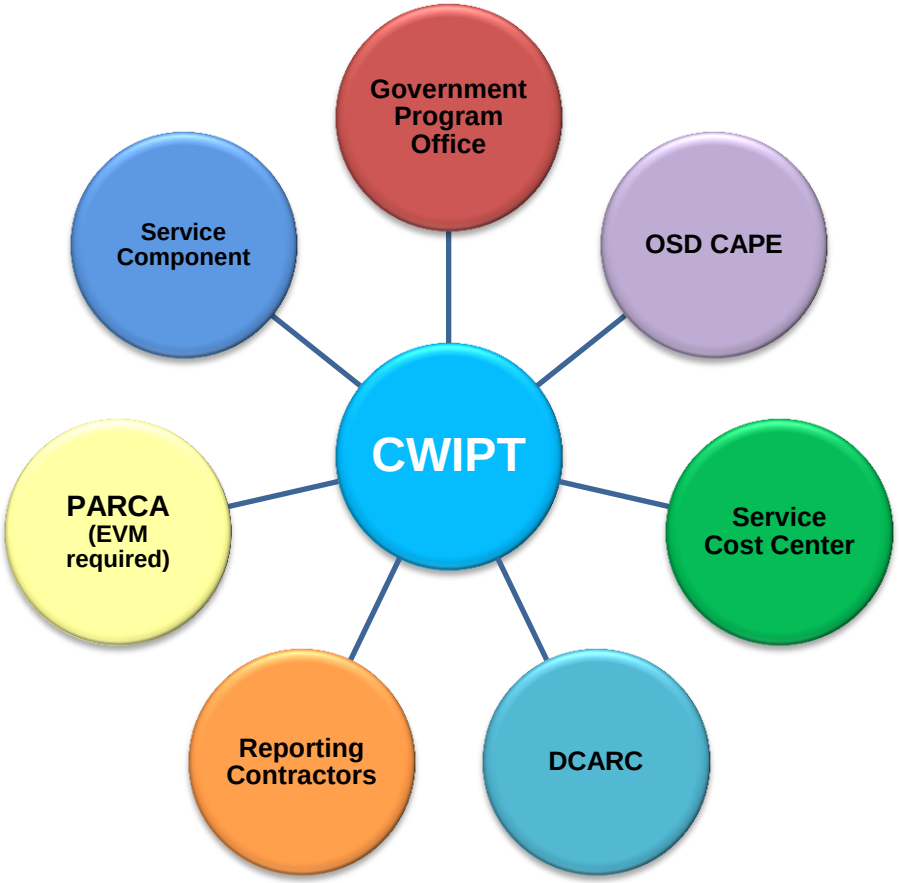
- Assist in identifying all RFP's
- Initiate CSDR process at Program Office
- Help develop all initial plans
- Provide all CSDR plan documentation
- CSDR Compliance
- Coordinate:
  - Service Cost Center
  - CAPE
  - Contractors

Service Cost Center:

- Assist in identifying all RFP's
- Help develop & obtain approval of all initial CSDR plans
- Ensure cost estimating needs are being met
- CSDR Compliance
- Coordinate:
  - Service Component
  - DCARC
  - CAPE

Cost Working Integrated Product Team (CWIPT)

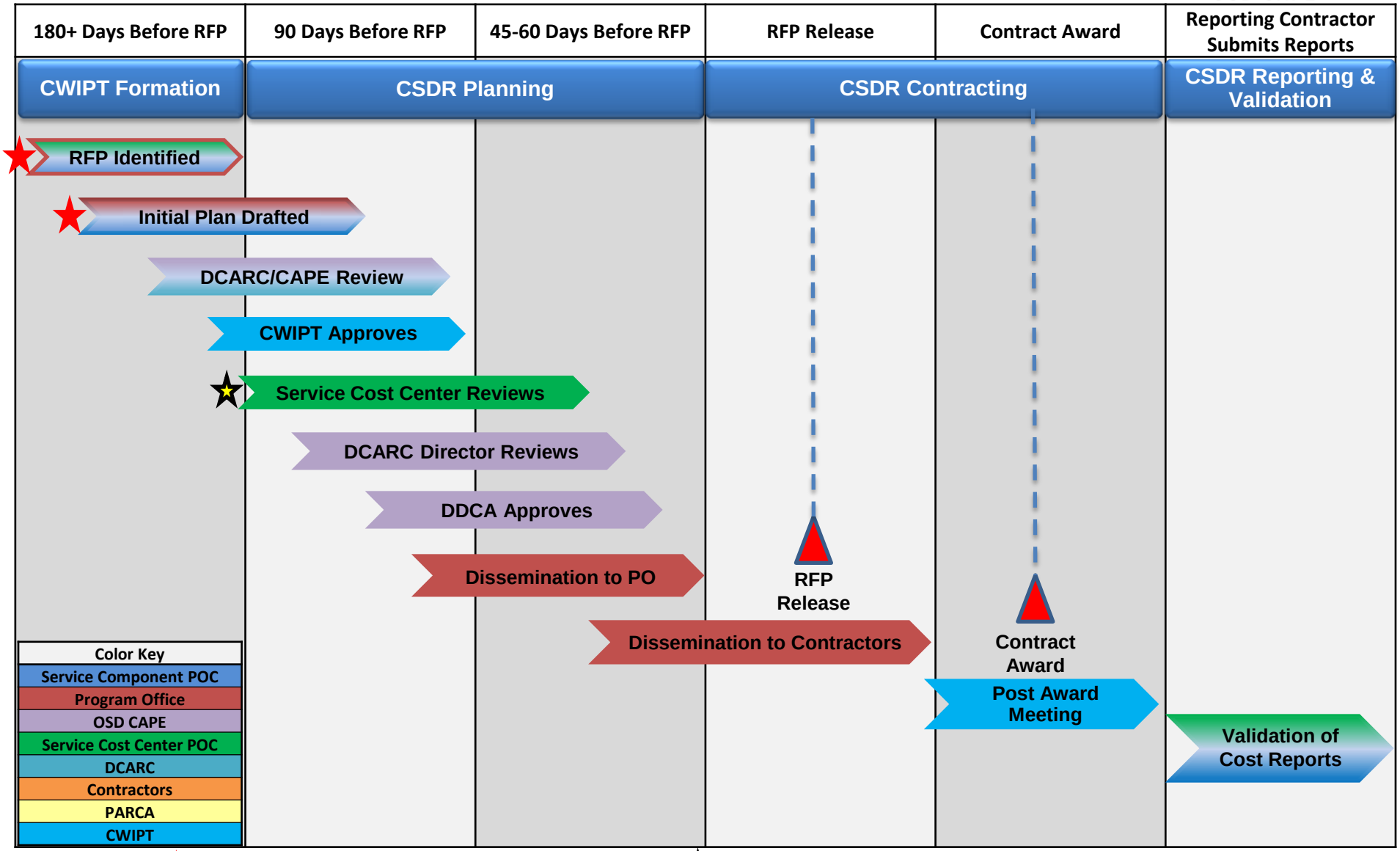
Participants	Role in PPM	Role
Service Component POC	Program Collaborator	Initiate CSDR process at Program Office; identify all RFP's going out
Program Office	Program Collaborator	Help develop initial plans; make DCARC/Service Component aware of all upcoming efforts
OSD CAPE	Program Collaborator	Provide input to plan to ensure cost needs are being met; provide final approval of plans
Service Cost Center POC	Program Collaborator	Help develop initial plan; provide input to plan to ensure cost needs are being met; provide initial approval
DCARC	DCARC Reviewer	Manage the entire CSDR planning process; ensure all rules and regulations are being followed
Reporting Contractors	N/A	If sole source, provide input and help government understand processes and procedures
PARCA	Program Collaborator	Provide input to ensure cost reporting structure and WBS are consistent where needed



CWIPT is responsible to the Program Manager for ensuring CSDR plans provide accurate, timely data in order to support cost estimating needs. The Program Manager is ultimately responsible for the formation of the CWIPT.

Top Level CSDR Process

OSD CAPE



NEW - Responsibility resides with SYSCOM and PO

NEW - Plans MUST be reviewed by Service Cost technical directors

RFP Identified

RFP Identified

CRITICAL to the SUCCESS OF CSDRs

- **All Stakeholders should assist in identifying:**
  Contracts > $50M
  - Competitive Bid? Sole source?
  - When will the contract be awarded?
- **Review all sources of contract information**
- **Confirm Release date and contract award date**

RFP and/or Contact Award information should always be relayed to DCARC office. The Service Component POC and the PMO/SPO would be responsible relaying this information.

- **After RFP identified:**
  - Set up initial CSDR planning meeting with key customers
    (NCCA, PMO, CAPE Analyst, EV Service Center, Syscom & DCARC)
  - Ensure CSDR language and plan are included in the RFP

Result: Service Component POC and PMO/SPO should always give DCARC heads up in advance

Initial Plan Drafted

OSD CAPE

- **Work with Program Office to identify effort**
- **Review CDRLs and SOW language**
- **Coordinate with CWIPT on initial draft plan**
- **Draft initial plan that is:**
  - Compliant with MIL-STD-881C
  - Compliant with cPet (CSDR Planning and Execution Tool)
  - Captures entire contractual effort
  - Satisfies CWIPT cost needs
- **Request following documents from the Program Office:**
  - Program Schedule
  - CDRLs
  - SOW Language
  - Resource Distribution Table (RDT)

Coordination takes approximately 10-20 hours per plan

Result: Service Component POC and PMO/SPO are responsible to work with DCARC and the Service Cost Center on the initial plan

CWIPT Approves Plan

- **CWIPT is responsible for providing the thought leadership from a cost estimating perspective**
- **Going forward, the SYSCOM is responsible for coordinating the CWIPT and ensuring everyone agrees on the plan; if there is no SYSCOM rep, then the responsibility falls to the Service Cost Center**
- **All members of the CWIPT must vote in the Program Planning Module (PPM) in order for the plan to go up for approval**
- **Plans will not be approved without agreement from the entire CWIPT**

Coordination takes approximately 10-20 hours per plan

CWIPT is responsible to the Program Manager for ensuring CSDR plans provide accurate, timely data in order to support cost estimating needs. The Program Manager is ultimately responsible for the formation of the CWIPT.

Service Cost Center CSDR Plan Review

Service Cost Center will hold a meeting to ensure the CSDR plan meets cost community needs. The POC will provide initial approval of the CSDR plan before forwarding it to CAPE for final approval.

Service Cost Center Reviews

LESSONS LEARNED:

Review plan & understand plan package prior to meeting

Plan accordingly for the data you need ahead of time

Gain CWIPT agreement prior to meeting

Include PMO in invite

Include CAPE analyst

The following questions must be considered at this meeting:

- How are you going to use this data?
- Does this plan get you the data that you need?
- Does this plan get you the data when you need it?
- How many data points will you have for the next Milestone decision?
- Does this plan capture the entire contractual effort?
- Are all of the efforts on the contract (i.e. new build vs. buying kits vs. upgrades) discretely broken out in either the WBS or the reporting events?
- Will there be any learning on any aspects of the contract? Are 1921-2's applicable?
- Is there any software development effort? Are the SRDRs broken out by CSCI?
- How is the rate tooling broken out? Is it worthwhile getting?
- Are the modification/Installation/Integration costs segregated?
- Are there any anti-tamper or cyber security costs for this program?

Result: Entire CWIPT team should attend meeting and be prepared to answer all questions

Prepare for CAPE CSDR Review Meeting

DCARC Director Reviews

DDCA Approves

Plan Package Presentation:

- Provide context
- Quality must be precise
- Solid story line
- CAPE Test

How am I going to use this data? How does this help me with my estimate?

When do I need the data and do the reporting events on the plan match my need?

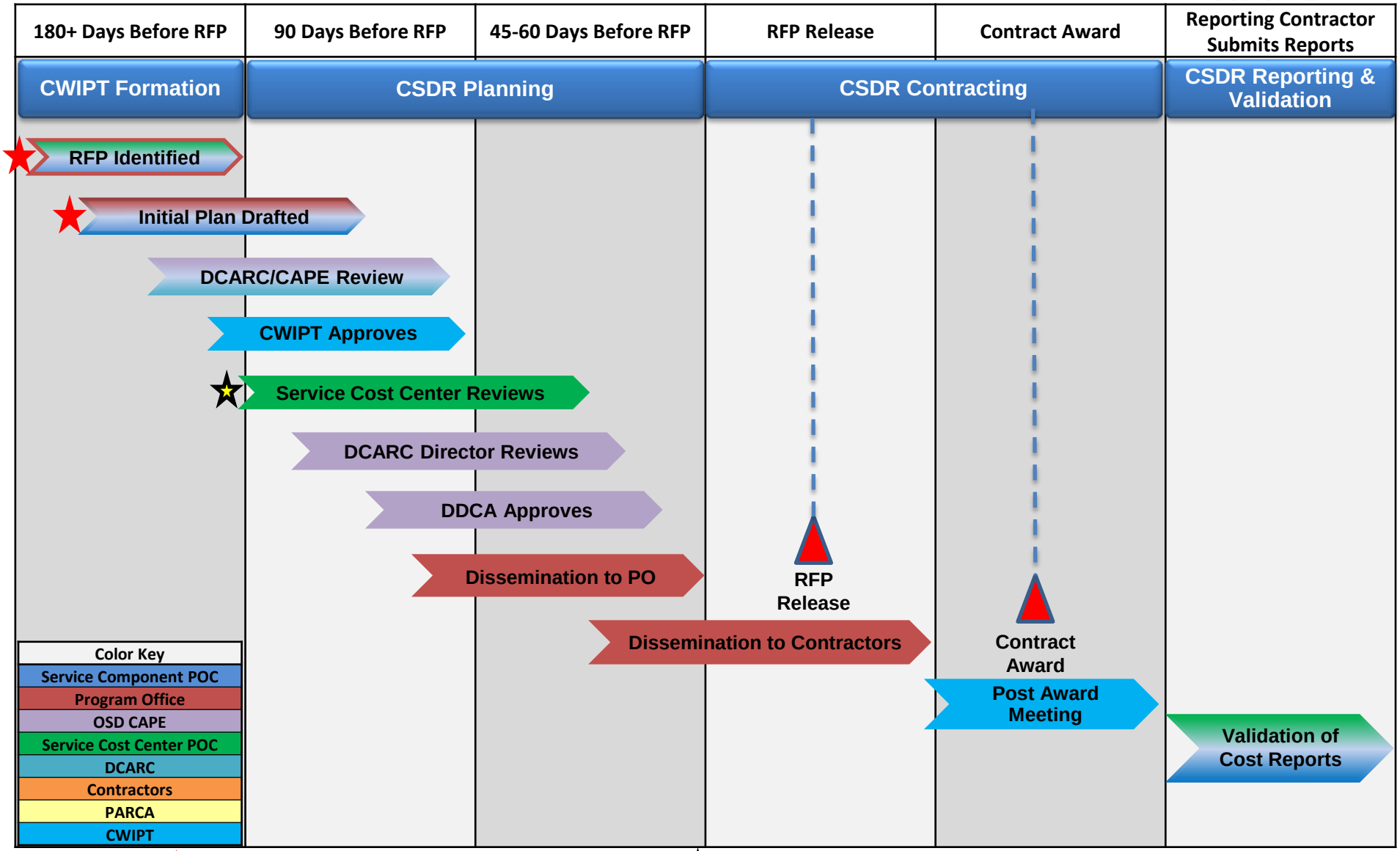
Is there any software development effort? If so, how much? Do I need SRDRs?

Will there be any learning on this contract?

Result: Entire CWIPT team should attend meeting and be prepared to answer all questions

Top Level CSDR Process

OSD CAPE



NEW - Responsibility resides with SYSCOM and PO

NEW - Plans MUST be reviewed by Service Cost technical directors

Cost Assessment Data Enterprise

CSDR Plan Read Ahead

Plan Package Information

Plan Package Name: NAME
Plan Package contents:

- X (NEW/REVISED) Program Plan(s)
- X (NEW/REVISED) Contract Plan(s)
- X (NEW/REVISED) Subcontract Plan(s)

RFP Date: DATE
Contract Award Date: DATE
Plan Version Type: NEW/REVISED/CANCELLED

Plan Package Synopsis:
Give a brief synopsis of the CSDR plan effort, similar to the Dr. Burke transmittal memo. Please include the following information: are these new plans or revised plans? What is this effort for? Where is the program in its lifecycle?

PLEASE BE BRIEF.

Contract Description:
PLEASE BE BRIEF. Summarize the objective in the Statement of Work.

CWIPT Review

DCARC	CAPE	PMO	NCCA	NCCA Dir.
NAME	NAME	NAME	NAME	D. Thomas
YES NO	YES NO	YES NO	YES NO	YES NO

Reporting Frequency

Plan Number	Contract Value	CSDR Reports	Frequency	Comments
N-XX-XX-XX Company Name		1921, -1, -2, -3, -5	Annually	1 Report per DO
		SRDR	Annually	For every release
N-XX-XX-XX Company Name		1921, -1, -2, -3, -5	Quarterly	For each completed lot
		SRDR	Annually	For every release
N-XX-XX-XX Company Name		1921, -1, -2, -3, -5	Quarterly	For each completed lot
		SRDR	Annually	For every release

Other Pertinent Program Information

1) **Plans Previously Reviewed with ASCADD?**
   If YES, provide the action items that came out of that meeting and how they were addressed. BE BRIEF.
2) **Are there any special circumstances that need to be addressed with this plan package?** ANSWER. BE BRIEF.
3) **How are you going to use this data? How will this data help your estimate?**
   ANSWER. BE BRIEF.
2) **Where is the Program in its life cycle and where does this effort fit?**
   ANSWER. BE BRIEF.
5) **When is the next decision point for this program?**
   ANSWER. BE BRIEF.
6) **How many CSDR reports/data points are available for the decision review?**
   ANSWER. BE BRIEF.
7) **Please List all known contracting efforts >$50M on the horizon. Anticipated RFP dates and Award dates.**
   ANSWER. BE BRIEF.
8) **What is the Program's DAES Rating? If there any major issues with the programs compliance, please discuss here.**
   ANSWER. BE BRIEF.

Cost Assessment Data Enterprise

FAR Part 12

- FAR Part 12 states that Contracting Officer shall not require certified cost and pricing data to establish price reasonableness for a commercial item during negotiations, as long as two or more vendors are bidding
- Programs try to use FAR Part 12 as rationale for not requiring CSDR cost reporting
- Commercial, Firm Fixed Price Contracts do not automatically meet requirements for CSDR waiver
  - Although FAR Part 12 precludes certified cost and pricing data in specific instances during prime, subcontract or contract modification *proposal*, it says nothing about excusing reporting for the life of the program.

Bottom Line: FAR Part 12 Does Not Excuse CSDR Reporting! A Waiver is Still Required.

CSDR Compliance Rating Criteria

Rating criteria emphasizes on time data submission

RATING	CRITERIA
Green	No open CSDR compliance issues.
Green Advisory	All outstanding CSDR deliverables* are less than or equal to three months overdue.
Yellow	Any outstanding CSDR deliverable greater than three months, but less than or equal to six months overdue.
Red	Any outstanding CSDR deliverable greater than six months overdue.
Red-Critical	1. Program Office released RFP without approved CSDR plan. 2. Program Office awarded prime contract without approved CSDR plan or failed to mod contract to place an approved CSDR plan on contract. 3. Program Office or Prime contractor failed to enforce flow down of CSDR requirements to direct reporting subcontractor or the prime contractor failed to mod subcontract to place an approved CSDR plan on contract.
Not Rated	The program has no CSDR activity (e.g., approved waiver, Pre-MDAP, cancelled, has no CSDR activity, or not currently tracked)

OF NOTE:

- CSDRs Assessed Qtrly w/DAES
- Reviewed as a part of DABs
- No ICE issued w/o approved CSDR plan on contract

**CSDR deliverables include Contract Data Reporting Structure Dictionaries, CCDRs, SRDRs, and CDRLs*

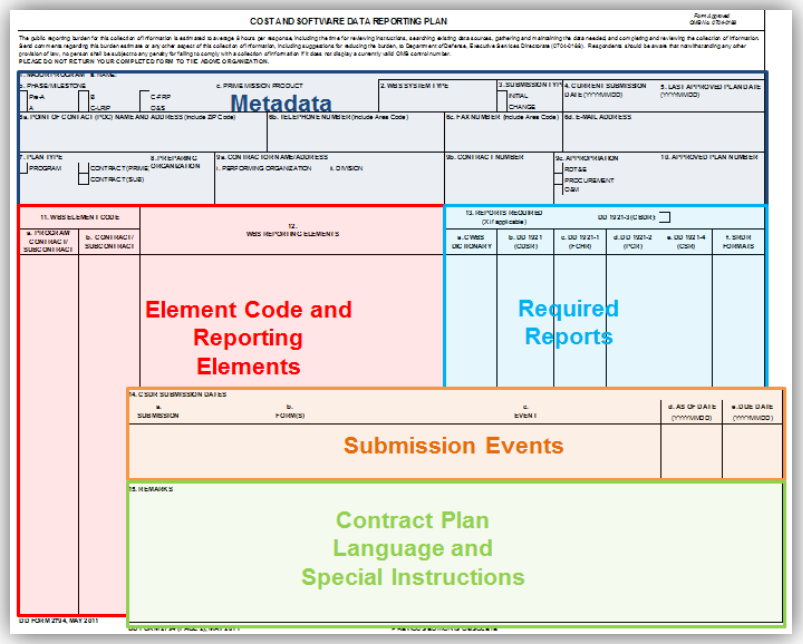
Cost Assessment Data Enterprise

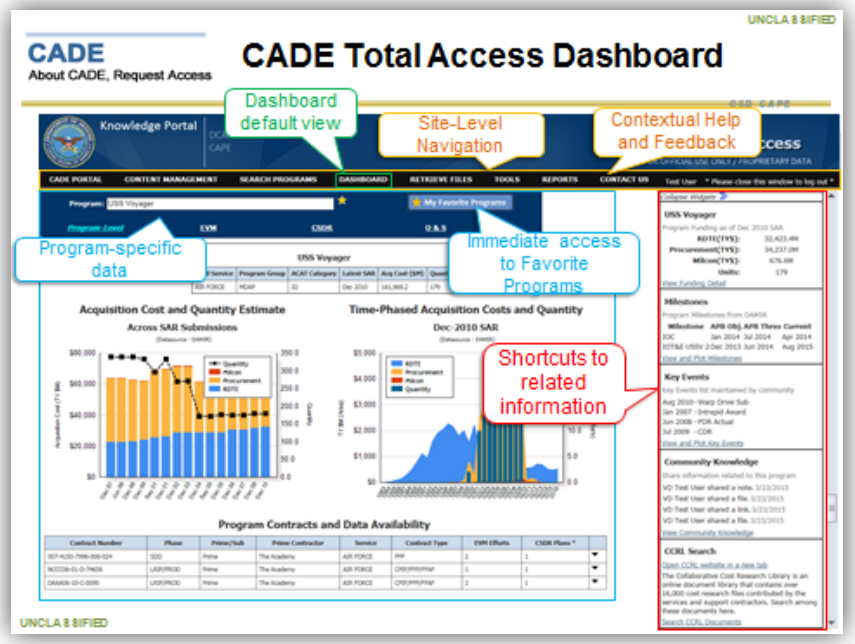
“CADEPardy”

Cost Assessment Data Enterprise

CSDR Validation

CSDR Validation



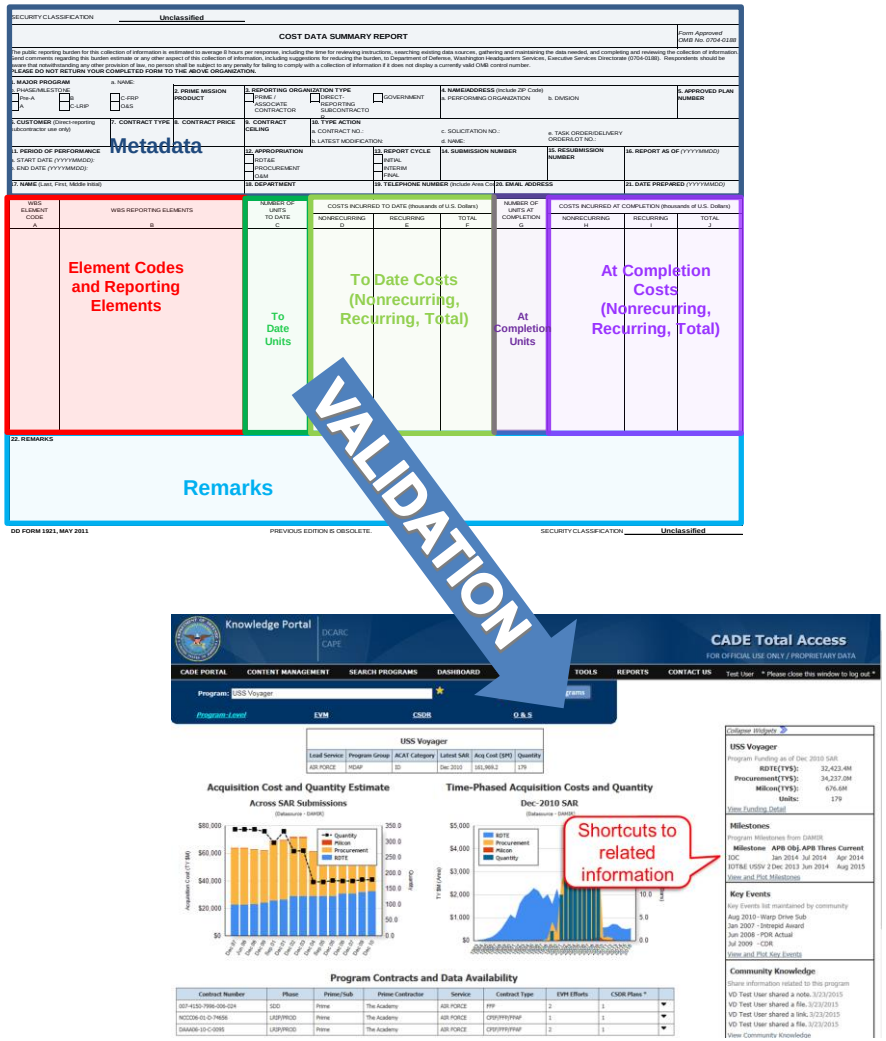


One of the most dangerous forms of human error is forgetting what one is trying to achieve.

Importance of Validations

Ensures:

- ✓ Data completeness and accuracy
- ✓ Comprehensive explanations of anomalies prior to acceptance
- ✓ Collective review by the cost community
- ✓ Ability to create a consistent and robust dataset



Top Level CSDR Validation

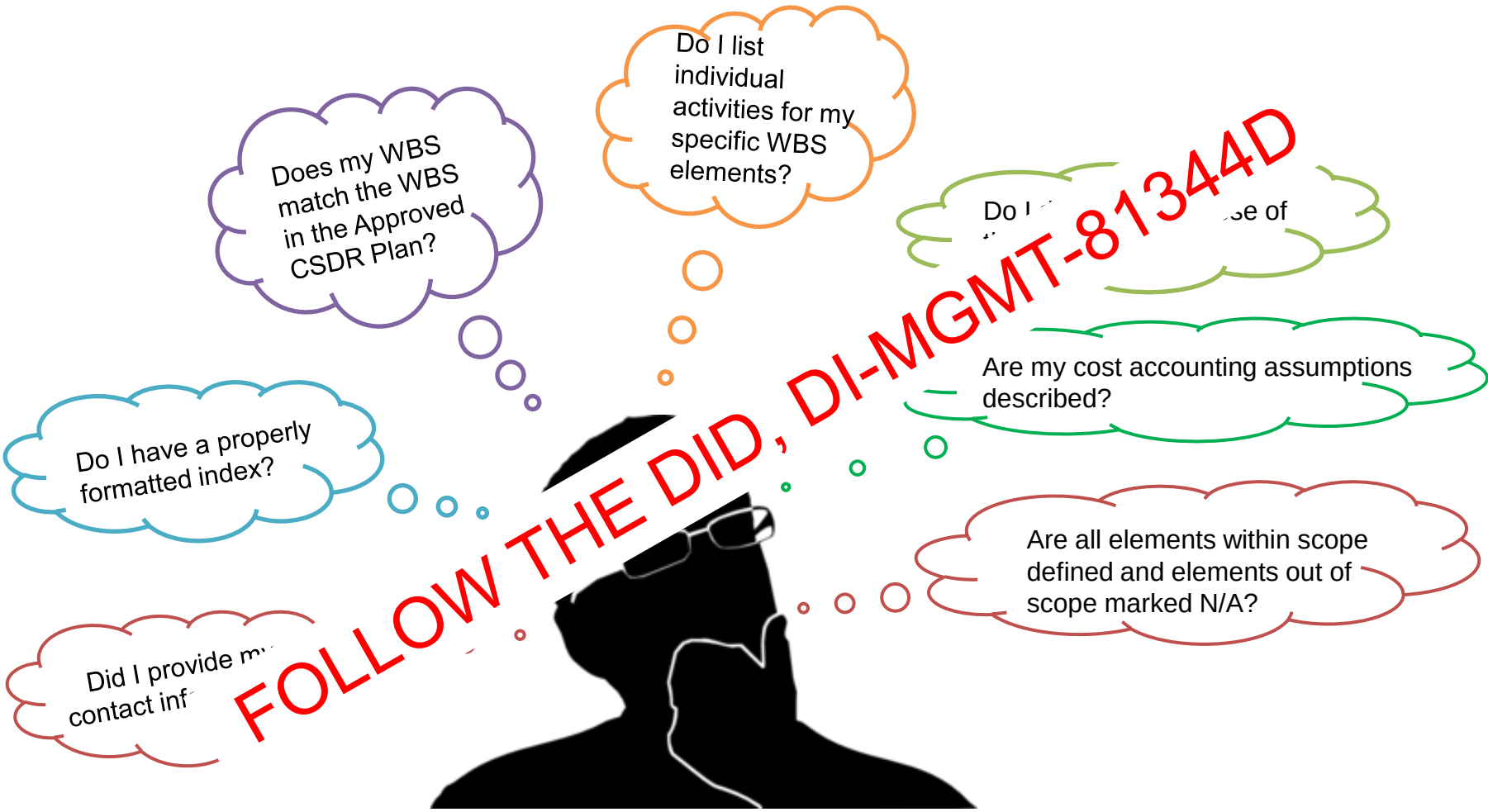
OSD CAPE

Pre-Validation	CSDR Validation	CSDR Report Finalization
Contractor Uses cPet		
Contractor Submits XML to CSDR S-R	DCARC Initiates Validation	
	PO/CAPE/SCC Validate Submission	
	DCARC Emails Validation Report	
	Contractor Corrects Report	
	DCARC Re-Validates Submission	
	DCARC Accepts or Rejects Report	
		DCARC Publishes to CADE
		OR
		DCARC Rejects Report and Process Starts Over

FYSA:
THE CSDR S-R IS BEING UPDATED TO BLOCK SUBMISSIONS WITH MAJOR ERRORS. USE CPET!!

Color Key
Program Office
OSD CAPE
Service Cost Center POC
DCARC
Contractors

When Creating a CWBS Dictionary:

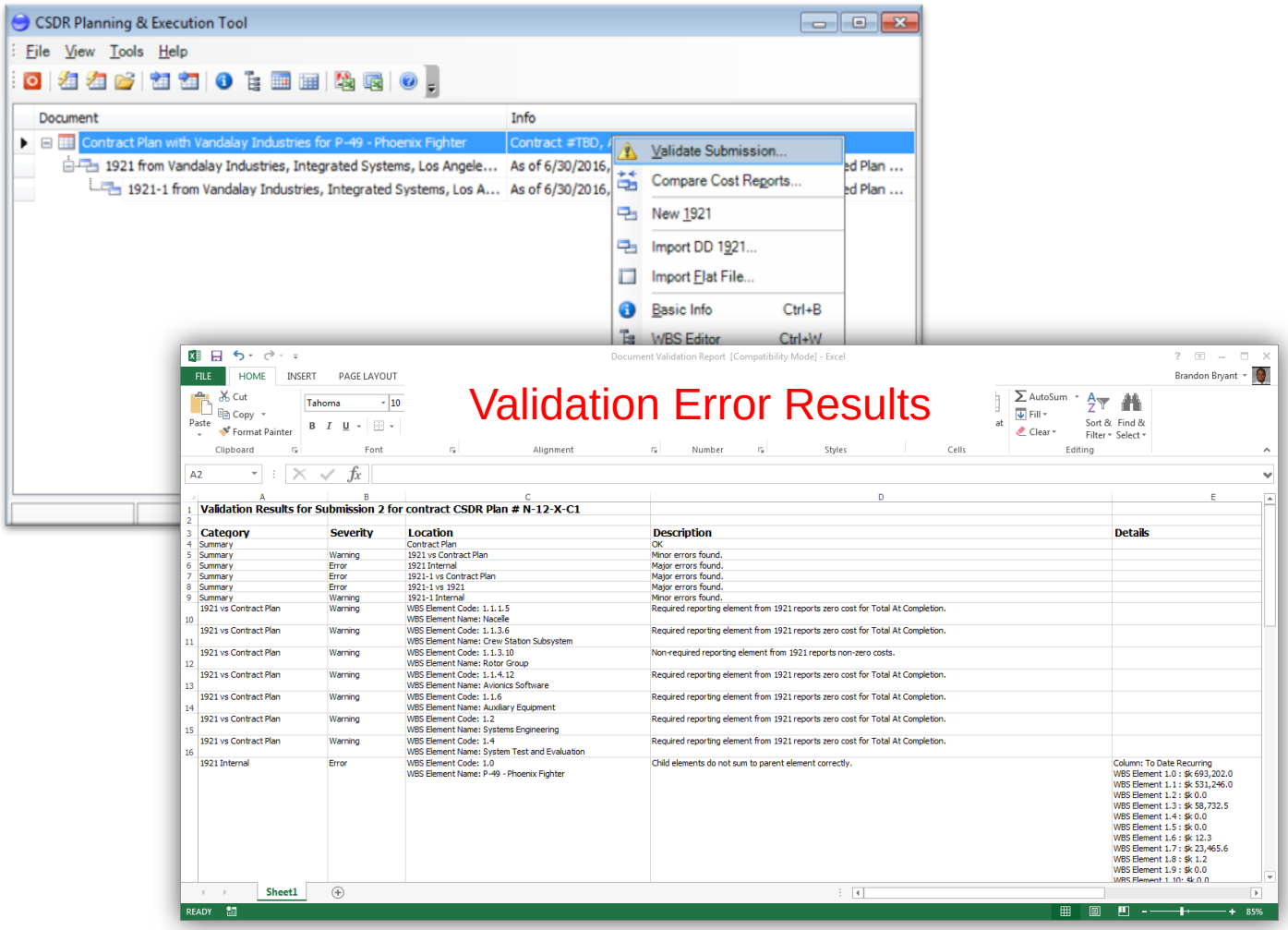


Save Some Time! Use cPet to Build Your Index and Dictionary Template!

CCDR Validation Process: cPet Automated Checks

cPet Checks:

- CCDRs are XML Compatible
- CCDRs are consistent with the CSDR Contract Plan
- Numbers sum correctly
- Checks for numerical anomalies
- 1921, 1921-1, and 1921-2 reports are consistent



**All major errors must be corrected prior to submittal, cPet will identify those errors for you!!!!

CCDR Validation Process Manual Checks

Manual Checks:

- All metadata is reported accurately
- Units are reported accurately
- Costs are categorized correctly
- Costs increase from previous report
- Appropriate and accurate explanations

SECURITY CLASSIFICATION: Unclassified

COST DATA SUMMARY REPORT

Form Approved OMB No. 0704-0188

The public reporting burden for this collection of information is estimated to average 8 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to Department of Defense, Washington Headquarters Services, Executive Services Directorate (0704-0188). Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.

PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THE ABOVE ORGANIZATION.

1. MAJOR PROGRAM: P-43 - Phoenix Fighter		2. PRIME MISSION PRODUCT: P-43 - Phoenix Fighter	3. REPORTING ORGANIZATION TYPE: [X] PRIME / ASSOCIATE CONTRACTOR [ ] DIRECT-REPORTING SUBCONTRACTOR [ ] GOVERNMENT	4. NAME/ADDRESS (Include ZIP Code): a. PERFORMING ORGANIZATION: Vandalay Industries, 352 Stork Rd. Los Angeles, CA 90043; b. DIVISION: Integrated Systems, 325 Stork Rd. Los Angeles, CA 90043	5. APPROVED PLAN NUMBER: N-12-X-C1
b. PHASE/MILESTONE: [ ] Pre-A [ ] B [X] C-FRP [ ] A [ ] C-LRIP [ ] O&S					
6. CUSTOMER (Direct-reporting subcontractor use only)	7. CONTRACT TYPE: FFP	8. CONTRACT PRICE: $867,992.5	9. CONTRACT CEILING	10. TYPE ACTION: a. CONTRACT NO.: XXXXXX-13-C-0019; b. LATEST MODIFICATION P00421; c. SOLICITATION NO.: N/A; d. NAME: Phoenix Fighter; e. TASK ORDER/DELIVERY ORDER/LOT NO.: Lot 9	
11. PERIOD OF PERFORMANCE: a. START DATE (YYYYMMDD): 20150601; b. END DATE (YYYYMMDD): 20161230			12. APPROPRIATION: [ ] RDT&E [X] PROCUREMENT [ ] O&M	13. REPORT CYCLE: [ ] INITIAL [ ] INTERIM [X] FINAL	14. SUBMISSION NUMBER: 2; 15. RESUBMISSION NUMBER: 0; 16. REPORT AS OF (YYYYMMDD): 20160630
17. NAME (Last, First, Middle Initial): Bellows, Drew R			18. DEPARTMENT: Finance	19. TELEPHONE NUMBER (Include Area Code): (310) 555-0559	20. EMAIL ADDRESS: andrew_bellows@vandalayindustries.com; 21. DATE PREPARED (YYYYMMDD): 20160614

WBS ELEMENT CODE A	WBS REPORTING ELEMENTS B	NUMBER OF UNITS TO DATE C	COSTS INCURRED TO DATE (thousands of U.S. Dollars) NONRECURRING D	RECURRING E	TOTAL F	NUMBER OF UNITS AT COMPLETION G	COSTS INCURRED AT COMPLETION (thousands of U.S. Dollars) NONRECURRING H	RECURRING I	TOTAL J
1.0	P-43 - Phoenix Fighter	10.0	$4,359.9	$693,202.0	$698,161.9	10.0	$5,106.7	$702,468.1	$707,574.8
1.1	Air Vehicle	10.0	$4,950.6	$531,246.0	$536,196.6	10.0	$5,026.2	$535,245.8	$540,272.0
1.1.1	Airframe	10.0	$4,072.6	$154,155.7	$158,228.3	10.0	$4,074.8	$155,555.8	$159,630.6
1.1.1.1	Airframe Integration, Assembly, Test and Checkout	10.0	$40.7	$5,051.4	$5,092.1	10.0	$42.9	$6,451.5	$6,494.4
1.1.1.2	Fuselage	10.0	$4,025.5	$99,587.2	$103,612.7	10.0	$4,025.5	$99,587.2	$103,612.7
1.1.1.2.1	Forward Fuselage	10.0	$1,355.1	$44,255.2	$45,610.3	10.0	$1,355.1	$44,255.2	$45,610.3
1.1.1.2.2	Center Fuselage	10.0	$1,677.3	$35,124.2	$36,801.5	10.0	$1,677.3	$35,124.2	$36,801.5
1.1.1.2.3	Aft Fuselage	10.0	$993.1	$20,207.8	$21,201.0	10.0	$993.1	$20,207.8	$21,201.0
1.1.1.3	Wing	10.0	$0.0	$35,021.5	$35,021.5	10.0	$0.0	$35,021.5	$35,021.5
1.1.1.4	Empennage	10.0	$6.4	$14,495.6	$14,502.0	10.0	$6.4	$14,495.6	$14,502.0
1.1.1.5	Nacelle	0.0	$0.0	$0.0	$0.0	0.0	$0.0	$0.0	$0.0
1.1.2	Propulsion (P-429 Engine)	10.0	$0.0	$22,587.0	$22,587.0	10.0	$0.0	$22,587.0	$22,587.0
1.1.3	Vehicle Subsystems	10.0	$5.2	$72,108.0	$72,113.2	10.0	$5.2	$72,108.0	$72,113.2
1.1.3.1	Vehicle Subsystem Integration, Assembly, Test, and Checkout	10.0	$5.2	$2,105.0	$2,110.2	10.0	$5.2	$2,105.0	$2,110.2
1.1.3.2	Flight Control Subsystem	10.0	$0.0	$4,025.1	$4,025.1	10.0	$0.0	$4,025.1	$4,025.1
1.1.3.3	Auxiliary Power Subsystem	10.0	$0.0	$5,048.6	$5,048.6	10.0	$0.0	$5,048.6	$5,048.6
1.1.3.4	Hydraulic Subsystem	10.0	$0.0	$3,589.7	$3,589.7	10.0	$0.0	$3,589.7	$3,589.7
1.1.3.5	Electrical Subsystem	10.0	$0.0	$9,486.5	$9,486.5	10.0	$0.0	$9,486.5	$9,486.5
1.1.3.6									
1.1.3.7	Subtotal Cost				$698,161.9				$707,574.8
1.1.3.8									
1.1.3.9	Reporting Contractor G&A				$62,057.0				$68,124.2
	Reporting Contractor Undistributed Budget								$0.0
	Reporting Contractor Management Reserve								$2,452.0
	Reporting Contractor FCCM				$6,124.4				$7,232.1
	Total Cost				$766,343.3				$785,443.1
	Reporting Contractor Profit/Loss or Fee				$70,548.5				$82,543.4
	Total Price				$836,891.8				$867,992.5

22. REMARKS

The data contained in this report is for 10 air vehicles built in Lot 9, which began on June 1, 2015. The final delivery for Lot 9 was made on June 30, 2016.

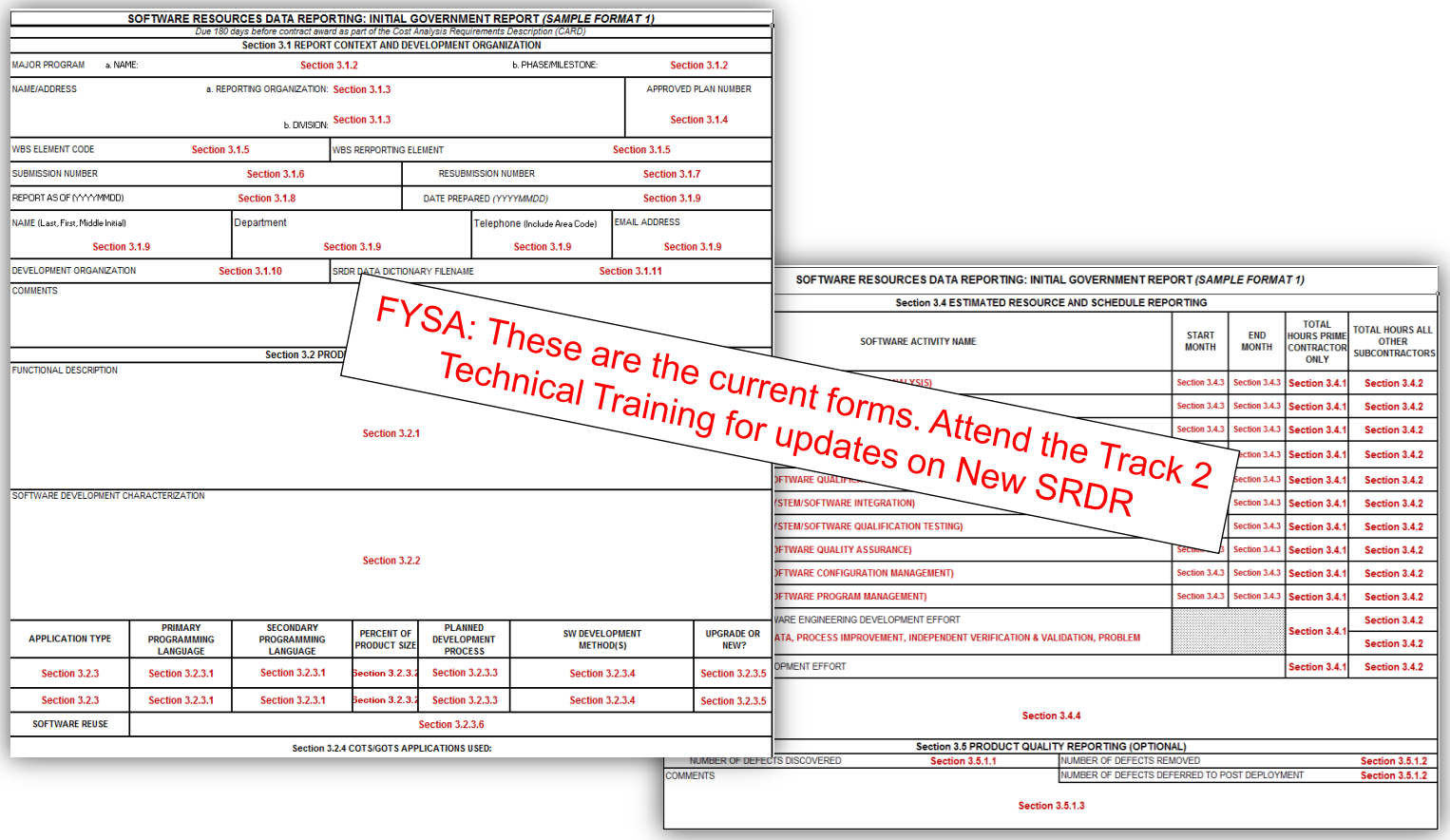
DD FORM 1921, MAY 2011 — PREVIOUS EDITION IS OBSOLETE. — SECURITY CLASSIFICATION: Unclassified

SRDR Validations

SRDR Validations

- All metadata is reported accurately
- Accurate explanation of software characteristics
- Discrete software size and effort reported
- Discrete reporting by release and CSCI
- Data dictionary provides necessary insight

Contractor submits SRDR → DCARC completes Initial Review → **SURF Team completes their review** → DCARC sends the Validation Error Report to the contractor → Contractor resubmits updated SRDR



SOFTWARE RESOURCES DATA REPORTING: INITIAL GOVERNMENT REPORT *(SAMPLE FORMAT 1)*

Due 180 days before contract award as part of the Cost Analysis Requirements Description (CARD)

Section 3.1 REPORT CONTEXT AND DEVELOPMENT ORGANIZATION

MAJOR PROGRAM a. NAME:	Section 3.1.2	b. PHASE/MILESTONE:	Section 3.1.2
NAME/ADDRESS a. REPORTING ORGANIZATION:	Section 3.1.3	APPROVED PLAN NUMBER	Section 3.1.4
b. DIVISION:	Section 3.1.3		
WBS ELEMENT CODE	Section 3.1.5	WBS REPORTING ELEMENT	Section 3.1.5
SUBMISSION NUMBER	Section 3.1.6	RESUBMISSION NUMBER	Section 3.1.7
REPORT AS OF (YYYYMMDD)	Section 3.1.8	DATE PREPARED (YYYYMMDD)	Section 3.1.9

NAME (Last, First, Middle Initial)	Department	Telephone (Include Area Code)	EMAIL ADDRESS
Section 3.1.9	Section 3.1.9	Section 3.1.9	Section 3.1.9

DEVELOPMENT ORGANIZATION	Section 3.1.10	SRDR DATA DICTIONARY FILENAME	Section 3.1.11

COMMENTS

Section 3.2 PROD

FUNCTIONAL DESCRIPTION — Section 3.2.1

SOFTWARE DEVELOPMENT CHARACTERIZATION — Section 3.2.2

APPLICATION TYPE	PRIMARY PROGRAMMING LANGUAGE	SECONDARY PROGRAMMING LANGUAGE	PERCENT OF PRODUCT SIZE	PLANNED DEVELOPMENT PROCESS	SW DEVELOPMENT METHOD(S)	UPGRADE OR NEW?
Section 3.2.3	Section 3.2.3.1	Section 3.2.3.1	Section 3.2.3.2	Section 3.2.3.3	Section 3.2.3.4	Section 3.2.3.5
Section 3.2.3	Section 3.2.3.1	Section 3.2.3.1	Section 3.2.3.2	Section 3.2.3.3	Section 3.2.3.4	Section 3.2.3.5
SOFTWARE REUSE	Section 3.2.3.6					

Section 3.2.4 COTS/GOTS APPLICATIONS USED:

SOFTWARE RESOURCES DATA REPORTING: INITIAL GOVERNMENT REPORT *(SAMPLE FORMAT 1)*

Section 3.4 ESTIMATED RESOURCE AND SCHEDULE REPORTING

SOFTWARE ACTIVITY NAME	START MONTH	END MONTH	TOTAL HOURS PRIME CONTRACTOR ONLY	TOTAL HOURS ALL OTHER SUBCONTRACTORS
...YSIS)	Section 3.4.3	Section 3.4.3	Section 3.4.1	Section 3.4.2
	Section 3.4.3	Section 3.4.3	Section 3.4.1	Section 3.4.2
	Section 3.4.3	Section 3.4.3	Section 3.4.1	Section 3.4.2
	Section 3.4.3	Section 3.4.3	Section 3.4.1	Section 3.4.2
OFTWARE QUALIFI...	Section 3.4.3	Section 3.4.3	Section 3.4.1	Section 3.4.2
YSTEM/SOFTWARE INTEGRATION)	Section 3.4.3	Section 3.4.3	Section 3.4.1	Section 3.4.2
YSTEM/SOFTWARE QUALIFICATION TESTING)	Section 3.4.3	Section 3.4.3	Section 3.4.1	Section 3.4.2
OFTWARE QUALITY ASSURANCE)	Section 3.4.3	Section 3.4.3	Section 3.4.1	Section 3.4.2
OFTWARE CONFIGURATION MANAGEMENT)	Section 3.4.3	Section 3.4.3	Section 3.4.1	Section 3.4.2
OFTWARE PROGRAM MANAGEMENT)	Section 3.4.3	Section 3.4.3	Section 3.4.1	Section 3.4.2
VARE ENGINEERING DEVELOPMENT EFFORT			Section 3.4.1	Section 3.4.2
ATA, PROCESS IMPROVEMENT, INDEPENDENT VERIFICATION & VALIDATION, PROBLEM				Section 3.4.2
OPMENT EFFORT			Section 3.4.1	Section 3.4.2

Section 3.4.4

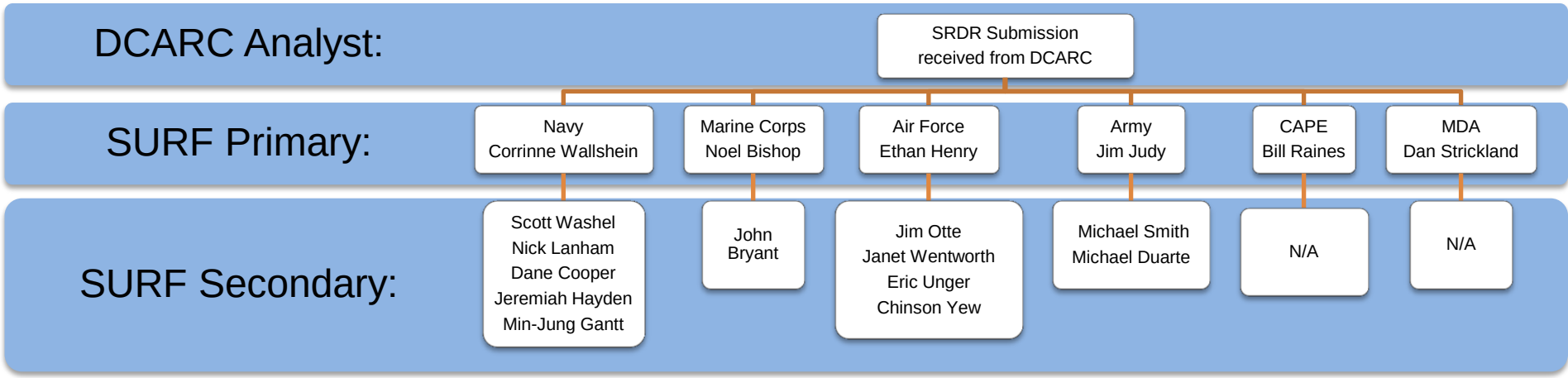
Section 3.5 PRODUCT QUALITY REPORTING (OPTIONAL)

NUMBER OF DEFECTS DISCOVERED	Section 3.5.1.1	NUMBER OF DEFECTS REMOVED	Section 3.5.1.2
COMMENTS		NUMBER OF DEFECTS DEFERRED TO POST DEPLOYMENT	Section 3.5.1.2

Section 3.5.1.3

FYSA: These are the current forms. Attend the Track 2 Technical Training for updates on New SRDR

SURF V&V Structure



- **Performs pre and post SRDR acceptance Validation and Verification (V&V) with DCARC**
- **Uses a detailed first-ever published *joint* V&V guide**
  - Training guide used to determine SRDR quality tags for database
- **SRDRs distributed among SURF members to balance workload**

Collaborative Validation

DCARC:

- Review reports for compliance with the DIDs and Policy (i.e. cost and units are accurately reported)
- Develop the validation error report
- Validates reports using cPet

Program Office:

- Data reflects entire contract
- Accurate and complete explanations
- Correct data reported for all elements in scope
- Product characteristics and functional breakdown validation
- Correct variant reporting
- Nonrecurring and recurring costs reported accurately

Service Cost Center/CAPE:

- Provides enterprise wide perspective to ensure consistency across programs
- Ensures data reported provides insight needed to support estimating decisions

CSDR Validation Summary

- CSDRs are validated consistently prior to acceptance in order to populate a robust dataset of historical cost data
- Government Analysts involvement in validation of reports is crucial to receiving quality data

Quality Data Leads to Quality Analysis!

Cost Assessment Data Enterprise

Validation Demo

Cost Assessment Data Enterprise

CADE Demo

Cost Assessment Data Enterprise

Round Table Discussion

Cost Estimating using CSDR Data

- You are a government cost estimator preparing an independent LCCE for a MS C decision on a new attack helicopter MDAP program. Answer the following questions:
  - What data would you use to prepare the estimate?
  - How could you apply historical CSDR data to support your estimate?
  - How could CSDRs be more useful to you?

CWIPT Roles and Responsibilities

- An MDAP program that you are responsible for is entering MS B a year from now. Please answer the following questions:
  - Which offices make up the CWIPT?
  - What are the roles and responsibilities of each member?
  - What can you do to ensure an approved plan is included in the RFP?

Cost Assessment Data Enterprise

CSDR Validations

- A final report for an MDAP program that you are responsible for was just submitted to the DCARC. Please answer the following questions:
  - What role do you play in the validation process?
  - What can you do to ensure the data reported is accurate and complete?
  - What tools can you use to help support your validation process?